

AUTHOR INDEX

VOLUME 62

- Aamand, Jens, 2352
 Abad, F. X., 1811
 Abbad-Andaloussi, S., 3499
 Abe, Keiko, 959
 Abe, Tetsuya, 2669
 Abee, Tjakko, 178, 1252
 Abramson, D., 3858
 Abramson, David, 648
 Abruña, Hector D., 4019
 Abu-Amro, Khaled K., 3107
 Abu Kwaik, Yousef, 2022
 Acuña, María Teresa, 1141
 Adams, Thomas H., 4296
 Adler, L., 3894
 Adlerberth, Ingegerd, 2244
 Admassu, Wudneh, 4669
 Adriaens, Peter, 4556
 Ahl, Thomas, 2352
 Ahmad, D., 2710
 Ahrens, U., 2988
 Ahrné, Siv, 2244
 Ait-Abdelkader, Nadra, 1096
 Aitken, Michael D., 2387
 Akhtar, M., 3274
 Akin, Danny E., 3600
 Akkermans, Antoon D. L., 1656, 2163, 4191
 Alam, Munirul, 3871
 Alattossava, Tapani, 1847
 Albar, Laurence, 473
 Albers, Eva, 3187
 Albrecht, Kenneth A., 4260
 Albrecht, S. L., 1220
 Alcaide, Elena, 928
 Alcantara, E., 583
 Alexander, M., 1764
 Alexander, Vera, 1803
 Alfreider, Albin, 2138
 Alijah, R., 570
 Alizadeh, Parvaneh, 1563
 Allard, Françoise, 2449
 Allard, Marie-Reine, 2029
 Allison, G. E., 4450
 Allison, Milton J., 2494, 3011, 3885
 Alm, Elizabeth W., 4504
 Alm, Elizabeth Wheeler, 3557
 Almeida, M. J., 4401
 Alonso, Jose L., 1885
 Alonso, Maria A., 1885
 Alsina, Mercedes, 443
 Althomsons, Sandy, 221
 Alvarez, A. M., 1021
 Alvarez-Cohen, Lisa, 3371
 Amann, Rudolf, 1998, 2138, 4329, 4641
 Amarger, Noelle, 685, 2029, 4202
 Amaro, C., 2806
 Amaro, Carmen, 450, 918, 928, 1454, 2331
 Amine, J., 3499
 Amoros, Inmaculada, 1885
 Ampe, Frédéric, 2854
 Anderlund, M., 3894
 Anderlund, Mikael, 4648
 Andersen, Finn, 1391
 Andersen, Gary L., 2978
 Andersen, Mark T., 3133
 Andersen, Søren, 3818
 Anderson, Michael, 283
 Anderson, M. Susan, 3234
 Anderson, Robert T., 1099
 Anderson, Robin C., 3885
 Ando, Tami, 4268
 Andrews, John H., 1514
 Andrews, Kathy T., 2657
 Anglade, Patricia, 4410
 Angst, Werner, 749, 4318
 Anguita, Juan, 1167
 Angulo, A. F., 328
 Annous, Bassam A., 1116
 Ansay, S. E., 1519
 Ansell, R., 3894
 Antoun, Hani, 2767
 Antranikian, Garabed, 2875
 Aoude-Werner, Dalal, 4381
 Apel-Birkhold, Patricia C., 4129
 Appanna, Vasu D., 2778
 Aragno, Michel, 1723
 Arahal, David R., 3779
 Archibald, F. S., 4417
 Argyle, John, 3762
 Argyle, John L., 4233
 Arimi, Samuel M., 1781
 Armstrong, L., 3868
 Armstrong, Stephen M., 1623
 Arnold, K. W., 1519, 1822
 Arnold, Walter, 766
 Aronson, Arthur I., 4168
 Arvin, Erik, 4632
 Asaka, Orie, 4081
 Asao, Tsutomu, 2947
 Ascenzi, Joseph M., 2681
 Asensio, Miguel A., 1897
 Atmar, Robert L., 254, 4268
 Auffray, Yanick, 2416
 Aumen, Nicholas G., 486
 Austin, B., 3929
 Avaniss-Aghajani, Erik, 872
 Averhoff, Beate, 3967
 Aversano, Paul J., 1467
 Avery, Simon V., 3960
 Avezard, Catherine, 3954
 Aymerich, Teresa, 1676
 Ayoubi, Patricia, 3227
 Azcona-Olivera, Juan I., 2117
 Baars, Johan J. P., 4542
 Bååth, Erland, 420, 2970
 Babel, W., 147
 Bachofen, Reinhard, 3339
 Backhaus, Horst, 4162
 Bacon, C. W., 4039
 Baik, Hyung Suk, 3094
 Bailey, James E., 3687
 Baker, L. Stuart, 2560
 Baker, Shiela A., 3017
 Bakker, Petra L., 2753
 Baldi, Franco, 2398
 Balebona, M. Carmen, 3650
 Baleiras Couto, M. Margarida, 41
 Ball, Hywel J., 631
 Bally, Matthias, 133
 Bandi, Claudio, 3005
 Baneyx, François, 1444
 Bao, Wuli, 3679
 Bao, Xiaoming, 4648
 Barak, Yoram, 2615
 Baranyi, J., 1029
 Barasubiye, Tharcisse, 1630
 Baratti, Jacques C., 1096
 Barbara, Gregory M., 3985
 Barbeau, Jean, 3954
 Barbier, Georges, 67
 Barbieri, Paola, 3704
 Barbirato, Fabien, 1448, 4405
 Barea, Jose Miguel, 842
 Barer, Michael R., 1873
 Barja, Juan L., 607
 Barkovskii, Andrei L., 4556
 Barnes, Mary, 1481
 Barnhart, Harold M., 3768
 Barquero, Candy, 1141
 Barriault, D., 2710
 Barry, James P., 954
 Barta, J. R., 3259
 Bartha, Richard, 1428, 2311, 2411
 Bartholomew, Barbara A., 3245
 Bartsch, Klaus, 3794
 Bateson, M. M., 1045
 Batt, Carl A., 1347
 Bauer-Kreisel, Petra, 3050
 Baum, James A., 4367
 Baumann, Paul, 332
 Baur, Bea, 3673
 Bavey, Philippe, 4580
 Bayles, Darrell O., 1116
 Bazzicalupo, M., 2279
 Beatty, J. Thomas, 3251
 Beauchamp, Chantal J., 2767
 Beaudet, Réjean, 809
 Beaulieu, Carole, 1630
 Becker, Klaus, 3600
 Bedard, Donna L., 4174
 Beeder, Janiche, 1793, 3551
 Beever, Ross E., 3133
 Beffa, Trello, 1723
 Behki, Ram, 403
 Belin, Jean-Marc, 3864
 Belkin, Shimshon, 2252, 4003
 Beller, Harry R., 1188
 Bellin, Joel K., 3466
 Beltrametti, Fabrizio, 121
 Benachour, Abdellah, 1112
 Ben-Dov, Eitan, 3140
 Bennett, D. Clark, 2723
 Bennett, George N., 2758, 3094
 Bennett, J. W., 3399
 Benson, David R., 2904
 Benson, Kim H., 2641
 Benz, Marcus, 1458
 Berger, Ralf G., 1295
 Bergeron, J., 2710
 Bergès, Hélène, 55
 Berkaw, Mary, 2534
 Bermúdez, Elena, 1897
 Berry, E. C., 515
 Bertheau, Yves, 2228
 Berthier, Françoise, 1922
 Berthier, Yvette T., 3037
 Bertone, S., 2122
 Bertoni, Giovanni, 3704
 Bérubé, Pierre, 4026
 Bestebroer, T., 328
 Bestetti, Giuseppina, 121
 Beauchat, Larry R., 2212, 2735
 Beun, Philip A. H., 1689
 Beuzón, Carmen R., 2375
 Bezalel, Lea, 292, 2547, 2554
 Bezborodnikov, Serguei, 2053
 Bezdicek, David, 3787
 Bhakoo, Mohan, 2598
 Bhatnagar, D., 191
 Bhatnagar, Deepak, 360, 3399
 Bhugaloo-Vial, Parwin, 4410
 Bianchi, A., 3405
 Bianchi, Armand, 174
 Bianciotto, Valeria, 3005
 Bidochka, Michael J., 907, 1257
 Bieg, Sabine, 2586
 Bierbaum, Gabriele, 385
 Bijvank, Saskia M., 1752
 Binks, Peter R., 1214
 Binnerup, Svend Jørgen, 1248
 Biosca, Elena G., 450, 918, 928, 1378, 1454, 2331
 Bisaillon, Jean-Guy, 809, 1908
 Blain, Françoise, 2723
 Blake, S. L., 2513
 Blakeley, Robert L., 4086
 Blanc, Michel, 1723
 Blanch, Anicet R., 443
 Blanch, A. R., 2673
 Blasco, Amalia, 3712
 Bledsoe, Tracey L., 3298
 Blingsmo, Ola R., 3313
 Blitchington, Rhonda B., 2273
 Blom, Cees W. P. M., 4100
 Blomquist, C. L., 2988
 Blotevogel, Karl-Heinz, 2651
 Blotevogel, K.-H., 1710
 Blouin, Kim, 2013
 Bocchini, Paola, 1928
 Böckle, Brigitte, 1070
 Bodelier, Paul L. E., 4100
 Boettcher, Katherine J., 3727
 Bogan, Bill W., 1597, 1788, 2381, 3697
 Böger, Peter, 1964
 Bogosian, Gregg, 4114
 Boivin-Jahns, V., 3405
 Bolaños, Hilda, 1141
 Bollinger, John, 3787
 Bolognese, Fabrizio, 3704
 Bond, Daniel R., 2095
 Bone, Eileen J., 680
 Bonfante, Paola, 3005
 Bonifacino, Aylin, 545
 Bonnarne, Pascal, 2826
 Boominathan, K., 3739
 Boone, David R., 4486
 Boopathy, Ramaraj, 3483
 Boos, Winfried, 3861
 Bordas, M. Angeles, 3650
 Bories, André, 1448, 4405
 Borneman, James, 1935
 Borrego, Juan J., 3650
 Borthakur, Dulal, 2839
 Bosch, A., 1811
 Bosch, Dirk, 1537, 2753, 2839
 Bosco, Marco, 3026
 Bosma, Tom N. P., 3655
 Bossier, Peter, 2687
 Bosworth, Andrew H., 4260
 Bothast, R. J., 4594
 Bothast, Rodney J., 3165
 Bottalico, Antonio, 3378
 Botton, Bernard, 3541
 Bounaix, Stéphane, 1112
 Bourassa, Martin, 4026

- Bourne, David G., 4086
 Boussiba, Sammy, 3140
 Boutibonnes, Philippe, 2416
 Bowers, John H., 3489
 Boyaval, Patrick, 4410
 Boyd, E. Fidelma, 804
 Boyer, Gregory L., 4044
 Boynton, Zhuang L., 2758
 Brahamsha, B., 1747
 Bramucci, Michael G., 3948
 Brandl, M. T., 4121
 Brandt, John P., 3034
 Brass, Susanne, 1964
 Brauman, Alain, 2854
 Braunegg, G., 2603
 Breuwer, Pieter, 178
 Breitung, Jürgen, 2651
 Brencley, Jean E., 3732
 Brenner, Kristen P., 203, 2264
 Brettar, Ingrid, 1383
 Breznak, J. A., 347
 Breznak, John A., 3620
 Briglia, Maria, 1478
 Bringel, Françoise, 4381
 Britt, Adrian J., 94
 Broadbent, Jeffery R., 936
 Brockman, Fred J., 2647
 Brosch, R., 1519
 Brown, A. J. P., 3158
 Brown, Beverly J., 2183
 Brown, Kim M., 834
 Brown, Stephen H., 834
 Browning, C. K., 1969
 Bruce, K. D., 2961
 Bruce, Neil C., 94, 1214
 Bruckart, William L., 3037
 Brunekreef, Bert, 3176
 Brunk, Clifford A., 872
 Brunk, Clifford F., 872
 Bruno, John G., 587, 3474
 Bruns, Mary Ann, 316
 Bruns-Nagel, Dirk, 2651
 Brzezinski, Ryszard, 1630
 Buchanan, Robert L., 4009
 Buchrieser, C., 1822
 Buchrieser, Carmen, 3572
 Buck, Sally L., 3521
 Budnick, Gary E., 3881
 Bulmer, D. K., 1969
 Bülow, Leif, 4648
 Bunduki, M. Marie-Claire, 1781
 Burdman, Saul, 3030
 Burke, Neal S., 1814
 Burkhardt, William, 254
 Burrini, Daniela, 2398
 Buscot, François, 3541
 Busscher, Henk J., 1958
 Butin, M., 4621
 Button, Don K., 2169
 Buysens, Saskia, 865
 Buysse, Linda, 80
 Bycroft, B. W., 2966
 Byrne, Armando M., 825
 Cabaj, Alexander, 1977
 Caccavo, Frank, Jr., 1487, 4678
 Caiaffa, Maria F., 3378
 Cain, Ronald B., 1265
 Caldwell, D. E., 3939
 Caldwell, Shelby L., 936
 Calegari, L., 2122
 Camarero, Susana, 1070
 Cameron, J. A., 456
 Camp, D., 3292
 Campbell, Cheryl L., 3750
 Camper, Anne, 4428
 Camper, Anne K., 4014
 Campos, Elena, 1141
 Cantafio, Alex W., 3298
 Cao, Ningjun, 2926
 Cao, Wei-Wen, 1242, 1825
 Capelari, Marina, 4206
 Capman, William C., 300
 Capone, Douglas G., 986, 1073
 Cappenberg, Thomas E., 772, 3535
 Cappuccinelli, Piero, 2375
 Cárdenas, Jacobo, 3834
 Carlin, Frédéric, 3069
 Carneiro de Melo, Alexandra M. S., 1831
 Caron, D. A., 1416
 Carpenter, J. C., 4352
 Carraway, Margaret, 712
 Carroll, Stephen J., 2681
 Cary, Jeffrey W., 360, 3399
 Cary, J. W., 191
 Casadesús, Josep, 2375
 Cascón, Alberto, 1167
 Casella, Sergio, 4019
 Castro, Carlos, 87
 Cavicchioli, Ricardo, 1287
 Cavin, Jean-François, 1274
 Cebolla, Ángel, 214
 Celis, P., 656
 Cenatiempo, Y., 3042
 Cerdá, Marta, 443
 Cerniglia, Carl E., 292, 798, 1242, 1825, 2547, 2554, 3477
 Chabot, Rock, 2767
 Chaboudez, Pierre, 3037
 Chai, Tuu-ji, 1300
 Chak, Kin-Fu, 1369
 Chakrabarty, A. M., 4276
 Champomier-Verges, Marie, 1922
 Chan, W. C., 2966
 Chang, Hsiao-Lung, 3371
 Chao, Yun-Peng, 1808
 Chapelle, Francis H., 288
 Chapin, Kimberle C., 3094
 Chapman, Peter J., 507
 Charles, Jean-François, 1544
 Charnay, Marie-Paule, 2029
 Chau, P. Y., 2294
 Chee-Sanford, Joanne C., 964, 974
 Chen, Feng, 2869
 Chen, Grace L., 1636
 Chen, Xiang-Fu, 380
 Chen, X. J., 279
 Cheng, C.-M., 1822
 Cheng, Tu-chen, 1636
 Chengappa, M. M., 469
 Chet, Ilan, 3581
 Cheung, Winnie, 2811
 Cheville, A. M., 1822
 China, Bernard, 3462
 Chiou, Chien-Ming, 1093
 Chodurek, Ewa, 3360
 Choi, A., 3939
 Choi, Gil H., 1984
 Choi, Jangyoon, 2482
 Choi, Keehyun, 2482
 Chowdhury, M. A. R., 115, 2508
 Christen, R., 3405
 Christen, Richard, 67
 Chu, Fun S., 1642
 Chu, Fun Sun, 360
 Chung, Hyenmi, 3772
 Chung, Max Ching-Ming, 2303
 Ciani, Maurizio, 128
 Ciuffetti, Lynda, 2198
 Clardy, Jon, 3061
 Clark, E. A., 3453
 Clarke, R. C., 4314
 Clavero, M. Rocelle S., 2735
 Clawson, Michael L., 2904
 Clear, R. M., 3858
 Coates, John D., 1099, 1531
 Coats, Karen St. Cyr, 4280
 Coccain-Bousquet, Muriel, 429
 Coffey, A., 3075
 Coffey, Aidan, 1252
 Cohen, Huguette J., 4303
 Cohen, Yehuda, 4210
 Cole, James R., 1188, 3800
 Cole, M. B., 3158
 Coleman, Margaret E., 3632
 Coleman, R. N., 4032
 Coleman, Shirley S., 1378
 Collins, Lisa A., 848
 Collins, Patrick J., 4563
 Colomer, Bruno, 1944
 Colwell, Rita R., 717, 1336, 1741, 4614, 4621
 Colwell, R. R., 115, 2508
 Conroy, R. M., 399
 Conway de Macario, Everly, 2629
 Cook, Alasdair M., 1526
 Cook, Gregory M., 1831, 4576
 Cook, Nigel, 822
 Cook, R. J., 552
 Cooke, S. M., 347
 Cooling, F. B., III, 2999
 Coote, P. J., 3158
 Copeland, Les, 4186
 Corberand, Thérèse, 2449
 Cordano, Ana-Maria, 271
 Cordero, Beatriz, 266
 Córdoba, Juan J., 1897
 Cormier, M., 4621
 Cornick, Nancy A., 3011
 Corsetti, A., 3220
 Côte-Real, Manuela, 3152
 Corthier, G., 735
 Corthier, Gerard, 2636
 Costerton, J. William, 4678
 Côté, Ludger, 3954
 Cottrill, Jeffrey A., 2845
 Coughlan, Michael P., 168
 Couillard, Michel, 3459
 Coventry, M. J., 1764
 Coventry, M. John, 2897
 Cox, H. H. J., 1471
 Craft, Cheryl M., 1550
 Cranfield, Michael R., 3234, 3908
 Crawford, Don L., 1120, 1814
 Crawford, Ronald L., 1120, 1842, 4669
 Criddle, Craig S., 2953
 Crimmins, K., 3158
 Croizé, J., 2477
 Crupper, Scott S., 3171
 Cue, David, 1107
 Culbertson, Charles W., 1818
 Cullen, Dau, 3697
 Cullen, Daniel, 860, 1514, 2381, 2660
 Curry, Sadie, 2198
 Curtiss, A., 583
 Cwalina, Beata, 3360
 Daane, L. L., 515
 Dadon, Sara, 4003
 Dalbøge, Henrik, 834
 Daly, C., 3075
 Daniels, Lacy, 2629
 Dankert, J., 3527
 Dannenberg, S., 942
 Darrasse, A., 2228, 2324
 Darwish, Ihab, 853
 Datz, Martina, 791
 Daubaras, Dayna L., 4276
 Daumas, S., 3405
 Davey, Hazel M., 1311
 Davey, Mary Ellen, 2953
 David, Silke, 1574
 Davidson, Barrie E., 2897
 Davidsson, Emil Torbjörn, 2345
 Dawson, K. A., 1770
 Day, Martin J., 2994
 Dean, D. H., 279, 583
 Dean, Donald H., 2845
 Deanda, Kristine, 4465
 de Barros Lopes, Miguel, 4514
 de Bont, Jan A. M., 259, 2773
 Deck, Joanna, 3477
 Decock, Carine, 80
 Défago, G., 552
 Défago, Genevieve, 33
 de Graaf, Wim, 772, 3535
 De Graaff, Leo H., 2179
 de Groot, Piet W. J., 4542
 Deguchi, Tetsuya, 4066
 de Koning, Wim, 3304
 de la Rubia, Teresa, 4263
 DeLeo, Paul C., 4580
 De Leon, Ricardo, 2074, 2086
 del Olmo, M. J., 2806
 DeLong, Edward F., 2888
 Delong, E. F., 1416
 de Lorenzo, Victor, 214
 de Maagd, Ruud A., 1537, 2753, 2839
 Deming, Jody W., 3344
 Denger, Karin, 1526
 Denman, Stuart, 1889
 Dennis, Douglas, 372
 de Nys, Rocky, 4284
 DePaola, Angelo, 3875
 De Pauw, G., 656
 de Pieri, Lucrezia A., 1699
 de Prada, Paloma, 3732
 de Raadt, A., 2603
 De Roock, Sandra, 564
 Derrien, A., 4621
 de Ruyter, Pascale G. G. A., 3662
 Dervin, Catherine, 2228
 Déry, Claude, 1630
 De Saeger, S., 1880
 Desjardins, Anne E., 353, 2571
 De Socio, Giacomo, 2644
 Destro, M. T., 705
 de Vos, Willem M., 1008, 1478, 1574, 1656, 2163, 3662, 4191

- Devreese, Bart, 4220
 de Vries, A., 328
 De Waal, Anthony, 3668
 de Weger, Letty A., 1076
 Dewhirst, F. E., 347, 942
 Dewhirst, Floyd E., 3439, 3779
 Déziel, Eric, 1908
 Diarra, Moussa S., 853
 Diaz, Eduardo, 1805
 Diaz, Gerardo, 1141
 Diaz-Raviña, Montserrat, 2970
 Dickman, Martin B., 74, 3053
 Dien, B. S., 4594
 DiGiovanni, G. D., 2521
 Dijkerman, Rembrandt, 20
 Dillon, Simon, 3716
 Diviès, Charles, 1274, 4493
 Dobbs, Fred C., 2501
 Dobson, Alan D. W., 3594, 4563
 Dodd, H. M., 2966
 Doddema, H. J., 1471
 Doekes, Gert, 3176
 Doherty, Kenneth W., 1593
 Dolence, E. Kurt, 853
 Dolence, Julia A., 853
 Dolfing, Jan, 886
 Dominguez, H., 3878
 Donaldson, Jackie, 4614
 Donnelly, Catherine W., 1781
 Donnelly, Jean, 2264
 Donnelly, Mark I., 1808
 Doran, Tim, 3446
 Dost, Michiel H. R., 1689
 Dousset, Xavier, 4410
 Douwes, Jeroen, 3176
 Dowd, Scot E., 296
 Dowdle, Philip R., 1664
 Doyle, Michael P., 2567
 Drake, Harold L., 486, 494, 4216
 Dreesen, David W., 3632, 3768
 Dreier, Jens, 1500
 Driessen, Arnold J. M., 2701
 Drocourt, Jean-Louis, 178
 Droppo, Ian G., 3508
 Drozd, C., 1227
 Drzyzga, O., 1710
 D'Souza, Trevor M., 3739
 Du, Cheng, 2932, 3722
 Du, Jianxin, 2926
 Dubourguier, H. C., 1233
 Duetz, Wouter, 3594
 Duetz, Wouter A., 601
 Dufosse, Laurent, 2826
 Dukan, Sam, 4003
 Dulieu, Hubert, 2443
 Dumonceaux, T., 4417
 Dunbar, John, 4180
 Duncan, Sylvia H., 4666
 Dupont, Claude, 4656
 Dupont, Laurence, 1847
 Durand, P., 2324
 Durán-Vila, Nuria, 3530
 Durham, Don R., 739
 Dzierżewicz, Zofia, 3360
 Eardly, Bertrand D., 2818
 Eaton, Richard W., 507, 756, 778
 Eaton, Staci L., 4388
 Eddy, Christina, 4465
 Edelson, Sharon G., 4009
 Edwards, Clive, 668
 Eggeling, Lothar, 4345
 Eggen, Rik I. L., 1478
 Eggert, Claudia, 1151
 Eggertsson, Gudmundur, 3047
 Egli, Thomas, 133, 1493
 Eguchi, Mitsuru, 1287
 Ehrlich, S. Dusko, 1922, 2636, 2641
 Eichenlaub, Rudolf, 1500
 Eijmsa, Bob, 41
 Einav, Monica, 3140
 Eisenbeis, Martina, 3050
 Ellar, David J., 680
 Ellis, A. G., 4314
 Ellis, William R., 4260
 Elmore-Meegan, M., 399
 Embley, T. M., 3905
 Embley, T. Martin, 4147
 Emerich, David W., 3757
 Endo, Noriko, 4340
 Engelen, Bert, 4162
 English, R. Samuel, 3762
 Ennahar, Said, 4381
 Ensign, Scott A., 61
 Eriksson, Karl-Erik L., 1151
 Eriksson, K.-E. L., 2477
 Erlandsen, S. L., 2789
 Ernst, Anneliese, 1964
 Errampalli, D., 4247
 Espejo, Romilio T., 1323
 Esposito, Enrico, 3265
 Estes, Mary K., 254, 4268
 Eyal, Osnat, 3270
 Eyssen, H., 656
 Faber, B. W., 1471
 Fábregas, Jaime, 266
 Facinelli, Bruna, 269
 Faith, N. G., 1519
 Falkenberg-Klok, Jens, 3494
 Falsen, E., 2477
 Fancelli, S., 2279
 Farber, J. M., 705
 Farueau, Marie-Laure, 2657
 Faucher, Esther, 3954
 Fayad, Karine, 1630
 Fayer, Ronald, 1431, 2866, 3234, 3908
 Fayet, Olivier, 55
 Fedorka-Cray, Paula J., 141
 Feliu, M. T., 2177
 Fellingner, Arthur J., 3646
 Felske, Andreas, 4162
 Feltham, R. Kevin A., 4614
 Ferdelman, Timothy G., 1391
 Fernández, Máximo, 1167
 Feron, Gilles, 2826
 Ferraro, Luisa, 128
 Ferreira, Marisa A. S. V., 87
 Ferris, M. J., 340, 1045
 Field, Jim A., 880, 4563
 Fiers, Walter, 2356
 Figueiras, M. J., 2177
 Filho, Edivaldo X. F., 168
 Filipek, Jaroslaw, 2859
 Fimland, Gunnar, 3313
 Finson, Naomi, 2839
 Fischer, Johanna Lott, 1723
 Fischer, Lutz, 2106
 Fish, Kenneth M., 3014
 Fishbain, Susan S., 4108
 Fitch, Mark W., 1124
 Fitzgerald, G. F., 676, 3075
 Fiuza, Lidia-Mariana, 1544
 Flahaut, Sigrid, 2416
 Flannigan, Derrick T., 3508
 Fleming, H. P., 304
 Fletcher, Madilyn, 100
 Flickinger, Michael C., 1107
 Florence, L. Z., 4032
 Focht, Dennis D., 3910
 Fogliano, Vincenzo, 3378
 Ford, Jon, 3446
 Ford, M., 3868
 Fornelli, Francesca, 3378
 Forney, Larry J., 2457, 2464, 2470, 4180
 Forsberg, Cecil W., 898
 Forster, Richard L. S., 3133
 Forster, Stefan, 1863
 Fortnagel, Peter, 367
 Fossing, Henrik, 1391
 Fossing, Henrik A., 1855, 1863
 Foster, John W., 3094
 Fout, G. Shay, 254
 Fouts, Benjamin, 1623
 Fouz, B., 2806
 Fouz, Belén, 928
 Fox, Brian G., 2716
 Fox, Patrick F., 501
 Francke, Wittko, 367
 Franco, Antonio R., 3834
 Franke, Sylvia, 791
 Frankenberg, W. T., Jr., 283
 Frassanito, Rita, 2644
 Fravel, Deborah R., 3183
 Freedman, David L., 2257
 Freeman, James P., 798, 2547, 2554
 Freeman, Stanley, 1014
 Freitas dos Santos, L. M., 4675
 Frelie, Paul F., 3439
 French, Christopher E., 1214
 Frenkiel, L., 2324
 Frere, Jacques, 2416
 Frey, Pascal, 473
 Friedl, Anton, 3210
 Friedrich, Andrea B., 2875
 Fries, Marcos R., 964
 Fritze, Hannu, 420
 Frohlich, Andrew A., 648
 Frolund, Bo, 1487
 Frost, John W., 964, 974
 Frostegård, Åsa, 420
 Frutos, Roger, 1544
 Fry, B., 2489
 Fry, John C., 2994
 Fu, Peter P., 2547, 2554
 Fujii, Nobuhiro, 662
 Fujii, Toshio, 4309
 Fujikawa, Hiroshi, 3745
 Fujimatsu, Isao, 152
 Fujimura, Takao, 2919
 Fujinaga, Yukako, 662
 Fujino, Tsuchiyoshi, 4238
 Fujito, Brian T., 3470
 Fukai, Eri, 2527
 Fukumori, Fumiyasu, 2464
 Fukuda, Hiroyuki, 4238
 Fukuda, Masao, 2940
 Fukui, H., 1021
 Fukui, Manabu, 3605
 Fukui, R., 1021
 Fukunaga, Masahito, 2338
 Fulthorpe, Roberta R., 1159
 Furusawa, Iwao, 4340
 Fussing, V., 347, 942
 Gahan, Cormac G. M., 1693, 3128
 Gajardo, R., 1811
 Galletti, Guido C., 1928
 Galli, Enrica, 121, 3704
 Galperin, Michael Y., 2915
 Gambacorta, Agata, 3265
 Gamble, Gary R., 3600
 Gangal, Rajeev M., 4299
 Gangar, Vidhya, 3572
 Gao, Shaojian, 1984
 Gapes, James Richard, 3210
 Garbar, Theodore L., 3439
 Garcia, Jean-Louis, 2657
 Garcia de la Torre, Jose, 1699
 Garcia-Pichel, Ferran, 3284
 Gardner, Richard C., 3133
 Gardner, Richard G., 196
 Garon, Marie, 1630
 Garriga, Margarita, 1676
 Garvey, P., 676
 Gaskell, Jill, 2660
 Gasparich, G. E., 3453
 Gasson, Michael J., 2641
 Gasson, M. J., 2966
 Gatel, Dominique, 4428
 Gaudet, I. D., 4032
 Gauthier, Gilles, 67
 Gawron-Burke, Cynthia, 4367
 Geiselbrecht, Allison D., 3344
 Gema, Diethard, 2651
 Genco, Robert J., 3933
 Georgiou, G., 1124
 Gerard, P., 3499
 Gerba, Charles P., 1424
 Gerritse, Jan, 2427
 Geßler, R., 3858
 Gessner, Mark O., 415
 Gevertz, Diane, 1623
 Ghakis, Christiane, 4656
 Ghosh, Robin, 3339
 Giacomini, M., 2122
 Gianinazzi-Pearson, Vivienne, 2443
 Gibson, David T., 1364, 2133, 3101, 3355, 4073, 4388
 Gibson, Steven L., 1741
 Giffhorn, Friedrich, 2586
 Gignac, Manon, 4026
 Gilbert, Peter, 2598
 Gill, Tom, 1058
 Gillies, Kevin O., 1481
 Gilmour, A., 1461
 Ginzberg, Idit, 3581
 Giovanetti, Eleonora, 269
 Giovannoni, S. J., 1171
 Giovannoni, Stephen J., 625
 Gitelson, Anatoly, 1570
 Giuliano, Laura, 174
 Givskov, Michael, 4284
 Glaasker, Erwin, 2701
 Gliesche, Christian G., 522
 Glöckner, Frank-Oliver, 2138
 Gnocchi, S., 2279
 Gobbetti, M., 3220
 Göbl, Friederike, 3432
 Goldman, J. C., 4428
 Golihtly, Elizabeth J., 834
 Gong, C. S., 2926
 González, Beatriz, 2701

- González, José M., 4433
 Gordon, D. A., 1171
 Gordon, David M., 3991
 Gordon, J. B., 1764
 Gordon, Jonathan, 2897
 Gorelova, N. B., 3887
 Gorontzy, Thomas, 2651
 Goszczynski, Stefan, 1814, 4669
 Goto, Tetsuhisa, 4036
 Gottschalk, Jan C., 1287, 2427
 Gottschalk, Gerhard, 3967
 Götz, A., 2621
 Gouka, Robin J., 1951, 3646
 Gould, F. K., 3868
 Goupil, Nathalie, 2636
 Gourmelon, M., 4621
 Goyal, Anil K., 230
 Gozé, Eric, 1544
 Graczyk, Thaddeus K., 3234, 3908
 Graham, Ann F., 2664
 Graham, Mary Louise, 4252
 Gram, Lone, 1058, 4284
 Grant, Irene R., 631
 Grant, Stanley B., 3466
 Graupner, Stefan, 1839
 Gray, David I., 822
 Gray, James P., 4049
 Gray, Jeffrey T., 141
 Gray, J. S., 4060
 Greenwood, Melody H., 4614
 Greer, G. Gordon, 2610
 Griengl, H., 2603
 Griebhammer, Anja, 486, 494
 Griffin, Hugh G., 2641
 Griffiths, Mansel W., 4229
 Griffiths, M. W., 3259
 Grifoll, Magdalena, 507
 Grimberg, Stefan J., 2387
 Grinshpun, Sergey A., 2264
 Grivet, Jean Philippe, 1448
 Grobbsen, Nicole G., 2421
 Gros, O., 2324
 Grosser, Robert, 13
 Gruber, Franz, 3432
 Gu, Binhe, 1803
 Gu, Kangfu, 2723
 Guarro, J., 2177
 Guerra, L. J., 2988
 Guespin-Michel, J. F., 3319
 Guezennec, Jean, 67
 Guillou, C., 3319
 Guiraud, P., 2477
 Gunzer, Florian, 791
 Gurijala, Koteswara R., 1583
 Gustafsson, Lena, 3187
 Gutiérrez, Ana, 1928
 Guyonvarch, Armel, 429
 Guzmán, Carlos, 214
 Guzzo, Jean, 1274, 4493
- Haandrikman, Alfred J., 1689
 Haanstra, René, 3978
 Haas, Dieter, 3391
 Habe, Hiroshi, 4471
 Hackett, K. J., 3453
 Hadar, Yitzhak, 292, 2547, 2554
 Haese, Angela, 393
 Hagen, Kari D., 947, 3298
 Hahn-Hägerdal, B., 3894
 Hahn-Hägerdal, Bärbel, 1705, 4648
- Haider, Thomas, 1977
 Hakola, Satu, 529
 Halablab, Mahmoud A., 3107
 Hales, Barbara A., 668
 Halkier, Torben, 834
 Hall, Grahame, 668
 Hall, Ken J., 3251
 Hallberg, Kevin B., 4243
 Hallsworth, John E., 2435
 Hamada, Nobushiro, 3933
 Hamase, Akiko, 2338
 Hamelin, Richard C., 4026
 Hammel, Kenneth E., 1788, 3679
 Hammill, Terry B., 1842
 Handelsman, Jo, 3061
 Handfield, Martin, 3459, 3544
 Hanselmann, Kurt, 3673
 Hansen, Eugene B., Jr., 3477
 Hansen, Theo A., 3978
 Hanson, Lars Å., 2244
 Hanson, Richard S., 1107
 Harazono, Koichi, 913
 Harder, W., 1471
 Harding, Stephen E., 1699
 Harding, Tanya, 1563
 Harker, Alan R., 3227
 Harman, Gary E., 2145, 2152
 Harkmark, Kim, 2897
 Harms, Hauke, 2286
 Harmsen, Hermie J. M., 1656, 2163
 Harp, James A., 2866
 Harper, David B., 3366
 Harris, David, 4288
 Harris, Jean Mary, 694
 Harris, Lachlan, 3548
 Harrison, N. A., 2988
 Hartman, Paul A., 2494
 Hartung, John S., 3121
 Harvey, J., 1461
 Harvey, Steven P., 1636
 Hashimoto, Tetsu, 2303
 Hashimoto, Wataru, 1475
 Hasselmann, Claude, 4381
 Hatta, Takashi, 2940
 Hatziloukas, Efsthios, 87
 Hatzimanikatis, Vassily, 3687
 Hauer, Bernhard, 3538
 Guespin-Michel, J. F., 3319
 Haugland, R. A., 3350
 Hauschild, James E., 2940
 Hausinger, Robert P., 2464
 Hautefort, Isabelle, 1434
 Håvarstein, Leiv Sigve, 1676
 Hayashi, Takahiko, 152
 Hayes, Christopher K., 2145
 Hayes, Jason T., 4014
 He, Haiyin, 3061
 He, Yongsheng, 3325
 Healing, Timothy D., 4614
 Healy, Aine, 501
 Heederick, Dick, 3176
 Hefner-Gravink, Ann, 1563
 Heidenreich, Erich, 1977
 Heidrich, Christoph, 385
 Heinrich, Keith, 3991
 Heinze, Thomas M., 3477
 Heipieper, Hermann J., 2773
 Heissenberger, Andreas, 4521
 Heitkamp, Michael A., 4114, 4659
 Hellingwerf, Klaas J., 3668
 Henis, Yigal, 3587
- Henschke, Paul A., 4514
 Herman, Lieve M. F., 1683
 Hermann, Thomas, 3238
 Hermon-Taylor, John, 3446
 Hernández, Pablo E., 2117
 Hernanz, Carmen, 1167
 Herndl, Gerhard J., 4521
 Herrera-Cervera, Jose A., 1145
 Herrmann, Matthias, 393
 Herwig, Russell P., 3344, 4049
 Herzog, Petra, 2859
 Hespell, R. B., 4594
 Hessing, Johanna G. M., 1951
 Heungens, Kurt, 865
 Hickey, Malcolm W., 2897
 Hickey, M. W., 1764
 Hill, C., 612, 676
 Hill, Colin, 1693, 3128
 Hill, Russell T., 717, 1336, 1741
 Hillier, Alan J., 2897
 Hines, Kate, 3385
 Hino, Sanae, 3901
 Hirano, Susan S., 2560
 Hirsch, Ann M., 3034
 Hirsch, Peter, 522
 Hjort, Mary, 1514
 Hodson, Robert E., 6, 4433
 Hoffmann, Peter, 4206
 Höfle, Manfred G., 1383
 Hofstra, Harmen, 41
 Höfte, Monica, 865
 Hohmann, Hans-Peter, 3687
 Hohn, Thomas M., 353
 Holben, William E., 2457, 2464
 Hollibaugh, James T., 2676
 Hollomon, Derek, 184
 Holm, Niels C., 522
 Holmström, Carola, 2783
 Holo, Helge, 1676
 Holst, Gerhard, 237
 Holst, Olle, 3047
 Holyoak, C. D., 3158
 Honda, Michinari, 3814
 Hoppe, H.-G., 4587
 Hopper, David J., 3245
 Horikoshi, Koki, 2747
 Horken, Kempton M., 3502
 Horlacher, Reinhold, 3861
 Horn, N., 2966
 Hörner, Roy, 2106
 Hornez, J. P., 1233
 Hosny, Michel, 2443
 Houtsma, P. C., 1616
 Houwing, Joukje, 886
 Hovanec, Timothy A., 2888
 Howard, Robert T., 3881
 Howlett, Niall G., 3960
 Hreggvidsson, Gudmundur O., 3047
 Hruby, Dennis E., 3933
 Hseu, Ruey-Shyang, 1354
 Hu, Xicheng, 4044
 Huang, Samuel J., 456
 Hubert, Jean-Claude, 4381
 Hubner, Romeo J., 2741
 Huettel, Markus, 1863
 Hugas, Marta, 1676
 Hugenholtz, Jeroen, 156
 Hughes, Patrick R., 105
 Huis in't Veld, Jos H. J., 41
 Hullar, Meredith A. J., 2489
 Humphrey, A. E., 3066
 Hupf, Gregory A., 743
- Huq, A., 2508
 Hurtubise, Y., 2710
 Huss, Martin J., 3750
 Huwig, Alexander, 2586
 Hyman, Michael, 2198
- Iandolo, John J., 3171
 Ibarra, Jorge E., 1306
 Ibeas, Jose Ignacio, 998
 Ibrahim, A., 3259
 Imanaka, Tadayuki, 2405
 Improta, Roberta, 3265
 Inada, Yūichi, 2216
 Inaoka, Satoshi, 275
 Inose, Tomoko, 1475
 Inoue, Hirofumi, 2338
 Inoue, Kaoru, 662
 Inui, Masayuki, 2692
 Inza, I., 2177
 Iovanna, Juan, 1434
 Iqbal, M., 2186
 Isaac-Renton, J. L., 2789
 Isaac-Renton, Judith, 47, 2798
 Isaka, Koji, 2669
 Isaksen, Mai Faurschou, 408
 Ishii, Yoshinori, 2919
 Ishikawa, Keiko, 4238
 Ishikawa, Masato, 3897
 Islam, M. S., 2508
 Ito, Yoko, 4036
 Itoh, Takeshi, 3745
 Ivanov, Leonid I., 3887
 Iwaki, Atsue, 3887
 Iwata, Nami, 4238
 Iyo, Abiye H., 898
- Jack, Ralph W., 2897
 Jackson, George J., 2866
 Jackson, J. Keith, 3572
 Jacobsen, Carsten Suhr, 3818
 Jacques, Mario, 853
 Jaeger, Karl-Erich, 3391
 Jain, Mahendra K., 2037
 James, A. L., 3868
 James, Sally G., 2783
 Janetzki-Mittmann, Claudia, 791
 Jannasch, Holger W., 954, 1593
 Jannes, Geert, 1683
 Jansen, Jennifer L., 1935
 Jansen, Michael, 3978
 Janssens, Stefan, 80
 Janssen, Dick B., 886, 3304
 Jappé, Jocelyne, 4195
 Jaquette, Cynthia B., 2212
 Jaradat, Ziad W., 1
 Jarvis, A. W., 1452
 Jaskot, Christina, 3508
 Jayasimhulu, Koka, 13
 Jaykus, Lee-Ann, 2074, 3772
 Jedlicki, Eugenia, 1323
 Jeffries, Peter, 842
 Jenni, Bernard, 3673
 Jennings, Dianne B., 3750
 Jensen, Kenneth A., Jr., 3679
 Jensen, Mark A., 2741
 Jenter, Harry, 1531
 Jeppsson, Helena, 1705
 Jeskulke, K., 4587
 Jetten, Mike S. M., 2421
 Jiang, Cheng-Lin, 244, 249
 Jiang, Haiyan, 2133
 Jiang, Xiuping, 1300
 Jimenez, Iliya Y., 2311

- Jimenez, Juan, 998
 Jofre, J., 2673
 Jofre, Joan, 443
 Johansen, Charlotte, 1058
 Johansson, Marie-Louise, 2244
 Johnsen, Kaare, 3818
 Johnson, C. H., 3350
 Johnson, Donovan E., 4168
 Johnson, Judith A., 717
 Johnson, R. P., 4314
 Jones, A., 1029
 Jones, Alun, 4086
 Jones, Dennis M., 4614
 Jones, Gary J., 4086
 Jones, Martin, 2598
 Jones, Warren, 4428
 Jones, Warren L., 4014
 Joosten, Han M. L. J., 1178, 4220
 Jørgensen, Bo B., 1855
 Jørgensen, Bo Barker, 408
 Jørgensen, Kirsten S., 1507
 Jørgensen, Niels O. G., 1991
 Joseph-Horne, Timothy, 184
 Joseph-Liauzun, Evelyne, 55
 Josephsen, Jytte, 3494
 Joset, Francoise, 1096
 Joshi, Lokesh, 907, 1257
 Josten, Michael, 385
 Joubert, J., 191
 Joyce, T. M., 399
 Jozsa, Peter-Georg, 3424
 Julien, R., 3042
 Jung, Günther, 385, 3313
- Kadam, Priya C., 4486
 Kahl, Michael, 2651
 Kähler, Paul, 986
 Kaijalainen, Seppo, 529
 Kaiser, Alan L., 4529
 Kaiste, Eva, 3047
 Kajiwara, Susumu, 4309
 Kakefuda, Mary, 4367
 Kale, Shubha P., 3399
 Kaloti, A., 1029
 Kanatani, Kazuo, 892
 Kane, Matthew D., 300
 Kang, Myoung Kyu, 3480
 Kant-Muermans, M. L., 1616
 Kaprelyants, Arseny S., 1311
 Kapulnik, Yoram, 3030
 Karagouni, Amalia D., 1774
 Karahanian, Eduardo, 2660
 Karch, Helge, 791
 Karita, Shuichi, 4663
 Karl, David M., 2501
 Karlson, Ulrich, 4361
 Karr, Dale B., 3757
 Karrasch, B., 4587
 Karsten, Ulf, 237
 Kaspar, Charles W., 3572
 Kaspar, C. W., 1519, 1822
 Kasuga, Kano, 4471
 Katan, Talma, 1014
 Kataoka, Michihiko, 2303
 Kato, Akio, 2216
 Kato, Nobuo, 2303, 2669
 Kawai, Shigeyuki, 2692
 Kawai, Shingo, 3679
 Kawase, Masaya, 1004
 Kayashita, Ayumi, 1004
 Keasling, J. D., 743
 Keel, C., 552
- Keel, Christoph, 33
 Keen, James E., 3325
 Keil, Deborah, 4280
 Kéléké, Simon, 2854
 Kelkar, Hemant S., 4296
 Kell, Douglas B., 1311
 Keller, Menachem, 3581
 Keller, Nancy P., 4296
 Kelly, Robert M., 4478
 Kelly, Steven L., 184
 Kempter, Christoph, 385
 Kengen, Harry M. P., 1656
 Kennedy, J. T., 3366
 Kennedy, R. C., 4536
 Kenzaka, Takehiko, 275
 Kersten, Philip J., 860
 Kersters, Ilse, 3277
 Kertesz, Michael A., 1526
 Kets, Edwin P. W., 259
 Kevei, Éva, 4461
 Khalid, Tawfik Hajji, 809
 Khan, Ashraf A., 1825
 Kigel, Jaime, 3030
 Kiliç, Ali O., 2111
 Kim, Augustine Yonghwi, 1759
 Kim, Byoung-Kwan, 2629
 Kim, Chi-Kyung, 262
 Kim, Eunbin, 1467
 Kim, Eunhui, 262
 Kim, John, 1563
 Kim, Sang-Jong, 3112
 Kim, Suk Am, 4186
 Kim, Wonkeuk, 2482
 Kim, Yongtaek, 2482
 Kim, Youngjun, 3227
 Kim, Youngsoo, 262
 Kimbara, Kazuhide, 2940
 Kimura, Shoji, 1475
 Kimura, Tetsuya, 4663
 King, Gary M., 1051
 King, G. M., 3203, 4548
 Kinkel, Linda L., 3489
 Kinkel, L. L., 3413
 Kinkle, Brian K., 2910
 Kirk, T. Kent, 2883
 Kirkpatrick, B. C., 2988
 Kirstein, F., 4060
 Kita, Keiko, 2303
 Kitamura, Kazuhisa, 2066
 Kitano, Yoshiharu, 1004
 Kitaoka, Yoshihisa, 4066
 Kjelleberg, Staffan, 1287, 2783, 4284
 Klaenhammer, T. R., 4450
 Klein, Christopher J. L., 4441
 Kleman, Gary L., 3502
 Kleman-Leyer, Karen M., 2883
 Klieve, Athol V., 994
 Klimant, Ingo, 237
 Klinke, Stefan, 749
 Klinsky, Daniel J., 1563
 Kloepper, Joseph W., 2767
 Klöser, Susanne, 1863
 Kluepfel, Dieter, 109, 4656
 Klug, Michael J., 4136
 Knackmuss, Hans-Joachim, 784
 Kniewald, Goran, 2398
 Kobayashi, Atsuko, 2216
 Kobayashi, Shozo, 3897
 Kodama, Kentaro, 162
 Koh, Sung-Cheol, 3910
 Kohl, Daniel H., 221
- Kohler, Hans-Peter E., 749, 4318
 Kohn, L. M., 4247
 Kohring, Gert-Wieland, 2586
 Kok, Jan, 1689
 Kok, Ruben G., 3668
 Komatsu, Ken-Ichi, 152
 Konai, Meghnad, 3453
 Koncz, Csaba, 3581
 Koncz-Kalman, Zsuzsanna, 3581
 Kondo, Masuo, 1004
 Kondo, Ryuichiro, 913, 4323
 Kong, K. F., 4199
 Konings, Wil N., 2701
 Konopka, A., 3292
 Kopczynski, E. D., 1045
 Kopczynski, Eric D., 3917
 Kopper, I., 2603
 Korber, D. R., 3939
 Korenberg, Edward I., 3887
 Korus, Roger A., 4669
 Kotoujansky, Alain, 2228
 Kotterman, Michiel J. J., 880, 4563
 Koukoulas, A. A., 4417
 Koura, Minako, 662
 Kozakiewicz, Zofia, 4461
 Kragelund, Lene, 480
 Krämer, Reinhard, 3238, 4155
 Kramer, Theodore T., 141
 Krause, Denis O., 815
 Krawiec, Steven, 1670, 3066
 Kreader, Carol A., 1102
 Kreiner, M., 2603
 Kreuzinger, Norbert, 3432
 Kristjansson, Jakob K., 3047
 Kroer, Niels, 1991
 Krooneman, Janneke, 2427
 Krumholz, Lee R., 4108
 Kubicek, Christian P., 3432
 Kubicek, C. P., 2859
 Kubo, Yasuyuki, 4340
 Kudo, Toshiaki, 461, 2747
 Kuenen, J. Gij, 2421
 Kuhner, Carla, 486
 Kuhner, Carla H., 2494
 Kuipers, Oscar P., 3662
 Kukor, Jerome J., 1728
 Kullman, Seth W., 593
 Kumagai, Hidehiko, 2692
 Kumeda, Yuko, 2947
 Kundi, Michael, 1977
 Kunji, Edmund R. S., 2701
 Kunz, Daniel A., 2195
 Kuo, Chun-Wei, 2317
 Kuo, White-Shang, 1369
 Kuramitsu, Howard K., 3933
 Kurkiewicz, Sławomir, 3360
 Kurusu, Takashi, 3516
 Kurzatowski, Wiesław, 2859
 Küsel, Kirsten, 4216
 Kwa, Marcel S. G., 1537
 Kwang, Jimmy, 3325
 Kwon, Ikboo, 2482
- Laanbroek, Hendrikus J., 4100
 Labarre, Cécile, 1274, 4493
 Labbé, Ronald G., 1441
 Laberge, I., 3259
 Labes, Gabriele, 1717
 Lachica, R. Victor, 4293
 la Grange, Daniël C., 1036
- Laguerre, Gisèle, 2029, 2449, 4202
 Lai, Chi-Yung, 332
 Laine, Marko J., 1500
 Laine, M. Minna, 1507
 Lairini, Khalid, 1604
 Lam, Hong, 1107
 Lama, Licia, 3265
 Lamar, Richard T., 1597, 1788, 2045, 2381, 3697, 3890
 Lambert, Bart, 80
 Lana, Rogério P., 4499
 Lanciotti, Eudes, 2398
 Langridge, Peter, 4514
 Lao, Guifang, 4256
 LaRossa, Robert A., 2252
 Larsen, Lars Hauer, 1248, 4641
 Larsen, Niels, 3557
 Larsson, Christer, 3187
 Latour, Xavier, 2449
 Lau, Peter C. K., 2169
 Laura, Danilo, 2644
 Lauret, Robert, 1922
 Lavergne-Mazeau, F., 3042
 Laverman, Annet M., 1664
 Leadbetter, Jared R., 3620
 Leahy, Joseph G., 825
 Leak, D. J., 4675
 Leão, Cecília, 3152
 Leavitt, Ronald W., 2681
 LeBot, Nathalie, 2527
 LeChevallier, Mark W., 2201
 Lee, Dong-Hun, 3112
 Lee, Julie C., 3061
 Lee, Kyoung, 3101
 Lee, Margie D., 3768
 Lee, Mi Kyong, 583, 2845
 Lee, M.-K., 2513
 Lee, M.-S., 1519
 Lee, Rachel, 360
 Lee, Shinyoung, 2482
 Lee, Soo-Youn, 3787
 Lee, Yoonsoo, 2482
 Leff, Adam A., 3486
 Leff, Laura G., 2183, 3486
 Leguerinel, I., 1233
 Le Guyader, Francoise, 254, 4268
 Lehtilä, Katja, 1500
 Leib, T. K., 4352
 Leigh, John A., 4233
 Leinonen, Petri, 529
 Leisner, Jørgen J., 2610
 Leitão, M. F. F., 705
 Leja, Linda, 254
 Lemanceau, Philippe, 2449
 Lemattre, Monique, 2228
 Lemmer, Hilde, 4329
 Lemos, M. L., 2806
 Lendenmann, Urs, 1493
 Leng, Xigang, 643
 Lenke, Hiltrud, 784
 Lentzsch, Peter, 1717
 Leonardson, Lars, 2345
 Leopold, Kristine, 480
 Leori, Guido, 2375
 Le Page, R. W. F., 1452
 Lépine, François, 809, 1908
 Leppard, Gary G., 3508, 4521
 Le Quere, Jean-Luc, 2826
 Lesaffre, E., 656
 Leslie, J. F., 4039
 Leslie, John F., 1182, 3750

- Leštan, Domen, 2045
 Letarte, Robert, 3459, 3544
 Levanon, Dan, 3587
 Lewis, Greg E., 3298
 Lewis, Thomas A., 1120, 4669
 L'Haridon, R., 735
 Li, Bin, 1329
 Li, Qi-Ren, 244
 Li, Shuxian, 1514
 Li, S. M., 2393
 Li, Xin-Liang, 209
 Lian, L.-Y., 2966
 Liang, Shun-Hsin, 4568
 Liao, James C., 1808
 Liberova, Rita N., 3887
 Libochant, Jacobus A., 4100
 Lidén, G., 3894
 Lidén, Gunnar, 3187
 Liefing, Lia W., 3133
 Lilius, Gösta, 4648
 Lim, E. L., 1416
 Lin, Jyhshun, 3094
 Lin, Shuen-Fuh, 1093
 Lin, Wei, 4303
 Lin, Xiang, 4273
 Lindley, N. D., 3878
 Lindley, Nicholas D., 429
 Lindow, S. E., 3413, 4121
 Lindow, Steven E., 2978
 Lindström, E. Börje, 4243
 Lindström, Kristina, 529
 Linz, J. E., 191
 Linz, John E., 4568
 Lipa, J. J., 3453
 Liss, Steven N., 3508
 Lister, Diane L., 94
 Littledike, E. Travis, 3325
 Liu, Jian-Wei, 2174
 Liu, Yong-Biao, 2839
 Livak, Kenneth J., 1347
 Livingston, A. G., 4675
 Ljungdahl, Lars G., 209
 Lloyd, J. R., 578
 Lobos, Sergio, 2660
 Loessner, Martin J., 1133, 3057
 Löffler, Frank E., 3800, 3809
 Logrieco, Antonio, 3378
 Lohmeier-Vogel, Elke M., 2832
 Lonergan, Debra J., 1531, 1818
 López, María M., 3530
 López-Meza, Joel E., 1306
 López-Siles, F. Javier, 3834
 Lorenz, K.-H., 2988
 Lou, J., 1770
 Louvrier, Philippe, 2029, 4202
 Loveland-Curtze, Jennifer, 3732
 Lovley, Derek R., 288, 1099, 1531, 1818
 Lowe, Christopher R., 94
 Loy, James K., 3439
 Lozano, Ignacio, 998
 Lubbers, M. W., 1452
 Lubitz, Werner, 2059
 Luchansky, J. B., 1519
 Ludescher, Richard D., 323
 Ludlow, Ian, 1699
 Lugtenberg, Ben J. J., 1076
 Lumini, Erica, 3026
 Luster, Douglas G., 3037
 Lynch, Nancy A., 2133
 Lyon, Pierre-François, 1723
 Lytle, C. David, 3470
 Ma, Chenghua, 3727
 Ma, Wen-Ge, 2111
 Macaskie, L. E., 578
 Macchia, Luigi, 3378
 MacDonald, Karen, 1287
 MacDonell, M. T., 1969
 Mach, Robert L., 2859
 Mackey, B. M., 1029
 Maclean, K., 2966
 Macnaughton, Sarah J., 1873
 Macy, Joan M., 3298
 Maeda, Isamu, 1004
 Maeng, Pil Jae, 3480
 Maftah, A., 3042
 Magan, Nareesh, 2435
 Magariños, Beatriz, 607
 Magli, Andreas, 1526
 Magot, Michel, 2657
 Mahanti, N., 191
 Mahon, Barbara E., 2212
 Mahoney, Noreen E., 1197
 Mainil, Jacques, 3462
 Makkar, Harinder Paul S., 3600
 Malandrin, Laurence, 2360
 Malburg, Laercio M. Jr., 898
 Maloney, C. L., 2999
 Malonga, Maurice, 2854
 Malouin, François, 853
 Maltseva, O. V., 2470
 Malvar, Thomas, 2839
 Manca, Maria C., 3265
 Manger, Ronald, 254
 Manneberg, Michael, 3687
 Manning, Nigel, 184
 Marasas, Walter F. O., 1182
 Marchiani, Marcello, 1723
 Marconi, Andrea M., 121
 Marco-Noales, Ester, 450
 Marga, Francisco, 4656
 Margolles-Clark, Emilio, 2145, 2152, 3840
 Marie, Dominique, 1649, 2527
 Marion, Didier, 4410
 Marquardt, Ronald R., 648
 Marqués, Silvia, 601
 Mars, Astrid E., 886
 Marshall, Charles R., 3034
 Martens, Rainer, 4206
 Martínez, Angel T., 1070, 1928
 Martínez, José, 4263
 Martínez, María Jesús, 1070
 Martínez-Picado, Javier, 443
 Märtlbauer, E., 3858
 Marugg, Joey D., 156, 4220
 Mas, Jordi, 620, 3640
 Masai, Eiji, 2940
 Masaphy, Segula, 3587
 Maskus, Michael, 4019
 Mason, David R., 2664
 Masson, Luke, 2839
 Masuzawa, Toshiyuki, 3887
 Matamoros, María Cecilia, 1141
 Mathela, C. S., 702
 Matheson, V. Grace, 2457
 Matsubara, Masaaki, 4066
 Matsudomi, Naotoshi, 2216
 Matsueda, Takahiko, 4323
 Matsumura, Fumio, 593
 Matsuo, Akira, 152
 Matsuzaki, Koji, 2303
 Matsuan, Anita, 3385
 Mavingui, Patrick, 2029
 Maximilien, Ria, 4284
 May, Harold D., 2534
 Mayer, Cynthia L., 2081, 3466
 Mayer, Lawrence M., 1051
 Mayo, Donald R., 3881
 Mazoy, R., 2806
 Mazurier, Sylvie-Isabelle, 685, 2029
 McArthur, J. Vaun, 1558
 McBeth, Dani L., 3538
 McBride, Mark J., 3017
 McCaig, Allison E., 4147
 McCarthy, A. J., 2186
 McCartney, Anne L., 4608
 McCarty, Perry L., 761
 McClay, Kevin, 2716
 McCormick, John K., 4095
 McCormick, Susan P., 353
 McDaniels, A. E., 3350
 McElhane, R., 1021
 McFadden, K. A., 4314
 McFeeters, R. F., 304
 McGovern, Elizabeth R., 254
 McGroarty, Jacqueline A., 1089
 McGuigan, K. G., 399
 McHatton, Sarah C., 954
 McInerney, Michael J., 26, 1583
 McIntosh, D., 3929
 McIntyre, Deane D., 2832
 McLean, Nigel W., 1089
 McLennan, A. M., 1081
 McMahon, Donald J., 936
 McMullin, Z., 3158
 McNab, Bruce, 4229
 McRoberts, W. C., 3366
 Meaden, P. G., 3929
 Mechanda, Subbaiah M., 4303
 Mehrens, M., 4587
 Mehta, Satish K., 1835
 Meier, Harald, 4329
 Meijer, Wilco, 156
 Meijer, Wim G., 3978
 Melanson, Denise M., 1378
 Meletus, Dietmar, 1500
 Menashero, Mazal, 3270
 Mercer, Derry K., 2186
 Merrick, Julie D., 680
 Metcalf, Theodore G., 254
 Metivier, Anita, 4410
 Mett, Anait, 3270
 Mett, Valentina, 221
 Metzler, Mary C., 1500
 Meulenbeld, Gerwin, 2773
 Miambi, Edouard, 2854
 Middelboe, Mathias, 1991
 Miethling, Rona, 4361
 Migaud, Marie E., 974
 Mikkelsen, Jørn Dalggaard, 4441
 Mikkonen, Merja, 1847
 Miles, Roger J., 1831, 3107
 Millar, Douglas, 3446
 Millard, Cynthia Sanville, 1808
 Miller, Leslie G., 3572
 Miller, Marvin J., 853
 Miller, P. G. G., 2186
 Miller, Terry L., 1589
 Mills, Aaron L., 2593
 Milner, Jocelyn L., 3061
 Milot, Sylvain, 809
 Minerdi, Daniela, 3005
 Miranda, Leticia, 3152
 Mishra, S. K., 1835
 Mitchell, James G., 3716, 3985
 Mitchell, Wilfrid J., 732
 Miura, Masahiko, 4066
 Miura, Toshiko, 2919
 Miura, Yoshiharu, 1004
 Miyamoto, Kenji, 2338, 3887
 Miyawaki, Izuru, 1004
 Miyazaki, Kentaro, 4627
 Miyoshi, Shin-Ichi, 3871
 Mizoguchi, Tadashi, 1004
 Moar, William J., 564
 Mobarry, Bruce K., 2156
 Moezelaar, Roy, 1752
 Mohammed, Sulma I., 4168
 Mohn, William W., 3146
 Molin, Göran, 2244
 Molin, Sören, 4632
 Molina, J. A. E., 515
 Molina-Garcia, Antonio D., 1699
 Møller, Søren, 4632
 Mollet, B., 1799
 Momose, Haruo, 4652
 Moncalvo, Jean-Marc, 1354
 Mondorf, Kristine, 834
 Monfort, Aurelia, 3712
 Moniello, G., 4666
 Monroe, Stephan S., 4268
 Montijn, Roy, 3176
 Montilla, R., 2508
 Montoya, Joseph P., 986
 Montville, Thomas J., 323, 4529
 Moore, Edward R. B., 2427, 3146
 Moore, Elizabeth C., 4280
 Moore, Robert E., 1208
 Moorehead, William, 47, 2798
 Morales, Ever D., 266
 Moran, Mary Ann, 6, 4433
 Moran, Nancy, 332
 Morbach, Susanne, 4345
 Morel-Deville, Françoise, 1922
 Moretti, Antonio, 3378
 Mori, Hideo, 1903
 Moriishi, Kohji, 662
 Morin, Pierre, 4428
 Morinigo, Miguel A., 3650
 Mormile, Melanie R., 1583
 Morosoli, Rolf, 109, 4656
 Morozumi, Hirotoshi, 725
 Morris, J. Glenn, Jr., 717
 Morris, Patricia J. L., 4114
 Morris, Paul F., 2811
 Morrison, Mark, 3826
 Moser, Duane P., 2100
 Mosier, Derek A., 643
 Motes, Miles L., 3875
 Mouëza, M., 2324
 Moyer, Craig L., 2501
 Mueller, Robert F., 3083
 Muijsenberg, Rob J. G. T., 3646
 Mukamolova, Galina V., 1311
 Muller, M. C., 735
 Müller, R. H., 147
 Muller, Terri A., 1336
 Munch, Jean-Charles, 3541
 Muniesa-Pérez, M., 2673
 Munthali, Mathildah T., 1805
 Murakami, Yuki, 1004
 Murakoshi, Akiko, 2236
 Murata, Kousaku, 1475
 Murinda, Shelton E., 3196

- Murnan, Tiffany, 3762
 Murphree, Rendi L., 3572
 Murphy, Catherine A., 456
 Murphy, Peter J., 3991
 Murray, Alison E., 2676
 Musil, Roy A., 2723
 Musters, Wouter, 3646
 Muyzer, G., 340
 Muyzer, Gerard, 1405, 2059, 3284, 4210

 Nadal, Dolors, 1944
 Nagalla, Srinivasa R., 1329
 Naganawa, Rie, 4238
 Nagao, Yoshiko, 959
 Nagaraja, T. G., 469
 Nagarajan, Vasantha, 3948
 Nagata, Hideki, 3933
 Nagel, E., 2999
 Naharro, Germán, 1167
 Nakada, Tetsuzan, 959
 Nakagawa, Koichi, 4652
 Nakajima, Hiroshi, 1475
 Nakamura, Katsumi, 4309
 Nakamura, Matayoshi, 4323
 Nakao, Minoru, 2338
 Nakari-Setälä, Tiina, 3840
 Nakatsu, Cindy H., 2457
 Nakayama, Akihiko, 3897
 Nakhei, Hassan, 1500
 Nassar, Atef, 2228
 Nasu, Masao, 275
 Natsch, A., 552
 Natsch, Andreas, 33
 Nawaz, Mohamed S., 1825
 Nealson, Kenneth H., 2100
 Nedwell, D. B., 3905
 Neef, Alexander, 4329
 Negri, Andrew P., 4086
 Neill, Frederick H., 254, 4268
 Neill, Sydney D., 631
 Neilson, J. W., 2521
 Nelson, Douglas C., 947, 954
 Nelson, Eric B., 1550
 Nelson, S. C., 1021
 Nerad, Thomas, 1431
 Nes, Ingolf F., 1676, 3313
 Ng, M. H., 2294
 Ng, S. P., 2294
 Nicholson, B. L., 2513
 Nicholson, Wayne L., 2221
 Nickel, Kathrin, 4318
 Nickerson, Kenneth W., 2932, 3722
 Nicklin, Stephen, 637, 1214
 Nicolaus, Barbara, 3265
 Nielsen, Jens, 4441
 Nielsen, Per H., 3083
 Nielsen, Per Halkjaer, 1487
 Nielsen-Leroux, Christina, 1544
 Niemeyer, Frank, 1774
 Nienhuis, James, 1935
 Niklasson, Claes, 3187
 Nilsen, Roald Kåre, 728, 1793, 3551
 Nimcevic, Dragan, 3210
 Niner, Bettina M., 3034
 Nishikawa, Takanori, 1287
 Nishiya, Yoshiaki, 2405
 Nissen-Meyer, Jon, 3313
 Niwa, Mineo, 2919
 Noda, Hiroaki, 162
 Noda, Satoko, 2747

 Noguchi, Yuji, 2919
 Noguera, Daniel R., 2257
 Nojiri, Hideaki, 4471
 Nolan, John V., 994
 Nold, Stephen C., 3917, 3922, 4598
 Noll, Kenneth M., 2915
 Nölling, Jörk, 2629
 Normand, Philippe, 979
 Norred, W. P., 4039
 Novel, Georges, 1112
 Nübel, Ulrich, 4162
 Nummy, Kathy A., 2464
 Nunan, Katrina M., 3298
 Núñez, Félix, 1897
 Nuñez, Manuel, 1178, 4220
 Nuñez, Soledad, 607
 Nuss, Donald L., 1984
 Nußbaumer, B., 570
 Nybroe, Ole, 480
 Nyengaard, Niels R., 3494

 Oberg, Craig J., 936
 Oberleiter, Alex, 4395
 Oberst, R. D., 469, 643
 Ochiai, Keiko, 1903
 O'Connor, Kevin, 3594
 O'Connor, L., 3075
 Oda, Shinobu, 2216
 Odom, J. M., 2999
 O'Donnell, Anthony G., 1873
 O'Driscoll, Brid, 1693, 3128
 Odumeru, Joseph, 4229
 Oerther, Daniel B., 3557
 Ogawa, Jun, 3814
 Ogram, Andrew, 3787
 Oguma, Keiji, 662
 Oh, Hoonil, 2482
 Ohbayashi, Yohko, 2669
 Ohkuma, Moriya, 461, 2747
 Ohmiya, Kunio, 4663
 Ohta, Hiromichi, 2216
 Ohtaguchi, Kazuhisa, 4309
 Okada, Keiji, 2338
 Okitsu, Tadayuki, 725
 Okon, Yacov, 3030
 Okwumabua, Ogi, 469
 Olivares, Jose, 1145
 Oliver, James D., 450, 918, 1378
 Oliver, L., 3292
 Olivier, Bernard, 2657
 Olsen, Ronald H., 825, 1728
 Olson, M. E., 2789
 Olsson, Lisbeth, 4441
 Omori, Toshio, 4471
 O'Neil, Julia P., 4114
 Ong, Corinne, 2798
 Op Den Camp, Huub J. M., 20
 Orellana, Omar, 1323
 Oremland, Ronald S., 1664, 1818
 Orrego, Cristián, 2676
 Osawa, Ro, 725, 3023
 Osborn, A. M., 2961
 Osguthorpe, Russell J., 2681
 Oshima, Tairo, 2191
 Oshimura, Masao, 892
 Ossewaarde, J. M., 328
 O'Sullivan, Katherine M., 1935
 Otero, Ana, 266
 Otsubo, Kazumasa, 152
 Otte, Sandra, 2421

 Overmann, Jörg, 3251
 Owens, Leigh, 3548
 Ozaki, Akio, 1903
 Ozaki, Akiyoshi, 4652

 Paffetti, D., 2279
 Pagé, Nicolas, 109
 Pagot, Yves, 3864
 Pais, C., 4401
 Palmer, Carol J., 2081, 3466
 Palmisano, Anna C., 1741
 Palsdottir, Astridur, 3047
 Palus, James A., 1935
 Pang, Tikki, 271
 Paquette, Gilles, 1908
 Park, C. E., 3274
 Park, Hyunghwan, 2482
 Park, Joung J., 1642
 Park, Seung-Hwan, 2839
 Parker, Dorothy L., 1208
 Parkes, R. John, 772
 Partensky, Frédéric, 1649
 Paster, B. J., 347, 942
 Paster, Bruce J., 3779
 Paster, Nachman, 3270
 Pasti-Grigsby, Maria B., 1120, 1814
 Patel, Bharat, 1889
 Patel, Bharat K.C., 2657
 Patiño, Manuel, 266
 Paul, Eldor A., 4288
 Pavlova, Sylvia I., 2111
 Pearson, A. J., 2961
 Pearson, Andrew D., 4614
 Pearson, L., 4536
 Pearson, Lynette, 3716
 Peck, Michael W., 2664, 3069
 Pedersen, Anne R., 4632
 Peferoen, Marnix, 80, 564
 Peist, Ralf, 3861
 Peleg, Nir, 3140
 Pelletier, D. A., 942
 Pellizari, Vivian H., 2053
 Pelzer, S., 570
 Peñalver, Ramón, 3530
 Pencrea'h, Gaëlle, 1096
 Pendroy, Christopher P., 3466
 Pennanen, Taina, 420
 Penttilä, Merja, 2145, 2152, 3840
 Pepi, Milva, 2398
 Pepper, Ian L., 1424
 Pepper, I. L., 2521
 Perdignes, Francisco, 998
 Peres, Armande, 67
 Pérez, Juana, 4263
 Perez-Espinosa, Alonso, 1604
 Pérez-González, José A., 2179
 Pernthaler, Jakob, 2138
 Perry, J. D., 3868
 Pesch, Bruce A., 2866
 Peterson, B. J., 2489
 Petitdemange, E., 3499
 Petitdemange, H., 3499
 Petsch, M., 2603
 Pfaller, Stacy L., 2910
 Pflugmacher, Ulrich, 3967
 Phillips, Donald A., 3333
 Phillips, Elizabeth J. P., 1531
 Picataggio, Stephen, 4465
 Piccarolo, C., 2122
 Pickup, Roger W., 668
 Piens, Carla, 80

 Pierard, Eva, 2826
 Pierson, Duane L., 1835
 Pignet, Patricia, 67
 Piippola, Seija, 529
 Pillai, Suresh D., 296
 Piña, Benjamin, 1944
 Pineda, Manuel, 1604
 Pinkart, Holly C., 1129
 Pintó, R. M., 1811
 Pirson, Vinciane, 3462
 Pittet, A.-C., 1799
 Pizarro, José, 1323
 Plachota, P., 2603
 Plante, Craig J., 1051
 Platteuw, Christ, 1008
 Plattner, Ronald D., 2571
 Plude, John L., 1208
 Podeu, Renate, 3432
 Pollack, J. D., 3453
 Pollak, Frauke C., 1295
 Polo, F. L., 2177
 Polzin, K. M., 1452
 Pommepuy, M., 4621
 Poole, Robert K., 1831
 Pooler, Margaret R., 3121
 Poppe, Joseph, 865
 Porter, Alan G., 2174
 Porter, J. K., 4039
 Portier, Kenneth M., 3572
 Postma, Pieter, 1922
 Poulsen, Lars K., 4632
 Poulsen, L. K., 347, 942
 Powelson, David K., 2593
 Prager, R., 2621
 Pretorius, Isak S., 1036
 Prévost, André P., 3954
 Pridmore, D., 1799
 Priest, Fergus G., 732
 Prieto, José Antonio, 3712
 Prieto, R., 3567
 Prin, Yves, 979
 Prins, Rudolf A., 2427
 Prior, Philippe, 473
 Proctor, Robert H., 2571
 Prosser, Jim I., 4147
 Pseudovsky, Evgenya, 3581
 Prufert-Bebout, Lee, 3284
 Psenner, Roland, 2138, 4395
 Pühler, Alfred, 766
 Pukall, R., 2621
 Puls, Jürgen, 168
 Punt, Peter J., 1951, 3646
 Purdy, K. J., 3905

 Qiang, Hu, 1570
 Quensen, John F., III, 2053

 Rabus, Ralf, 1238, 3605
 Radhoe, H., 1471
 Radice, Stefania, 3960
 Raguenes, Gérard, 67
 Rahman, Ishrat, 115
 Rahn, John A., 2540
 Rahn, K., 4314
 Raibaud, Pierre, 1434
 Rajakumar, Susela, 2660
 Ramare, Francoise, 1434
 Ramón, Daniel, 2179
 Ramos, Ana, 2577
 Ramos, Juan L., 601
 Ramsing, Niels B., 1391, 1405, 1855
 Ramsing, Niels Birger, 4641, 4678

- Randazzo, Giacomino, 3378
 Rankin, Clifford C., 203
 Rapp-Giles, Barbara J., 3762
 Räsänen, Leena A., 529
 Raskin, Lutgarde, 300, 3557, 3847, 4504
 Rasmussen, Mark A., 3885
 Ratray, Fergal P., 501
 Raventós, Henriette, 1141
 Ravoï, Gilles, 2657
 Rayman, K., 3274
 Rea, Mary C., 612
 Read, S. C., 4314
 Reddell, Paul, 979
 Reddy, C. Adinarayana, 3739, 4288
 Reddy, P. M., 1220
 Red Nacional de Laboratorios para Cólera, Costa Rica, 1141
 Rees, Catherine E. D., 1133
 Regev, Avital, 3581
 Reichert, Arno, 4576
 Reid, Gregor, 1958
 Reimer, Monika F., 1623
 Reinhard, Martin, 1188
 Rekhif, N., 1799
 Remaut, Erik, 2356
 Renault, P., 2636, 2641
 Renganathan, V., 1329
 Renwick, S. A., 4314
 Requena, Natalia, 842
 Resnick, Sol M., 1364, 3355, 4073, 4388
 Revsbech, Niels Peter, 1248, 4641
 Rey, Michael W., 834
 Reyes, A. L., 3350
 Reynolds, Kelly A., 1424
 Reynolds, Paul H. S., 221
 Rhee, Young Ha, 3480
 Rhodes, Albert N., 1159
 Rice, E. W., 3350
 Richardson, A. J., 4666
 Richmond, Amos, 1570
 Ricke, Steven C., 296
 Riddles, Peter, 4086
 Rigottier-Gois, Lionel, 685, 2029
 Rijpens, Nancy P., 1683
 Rinker, Kristina D., 4478
 Rinyu, Edit, 4461
 Ritchie, D. A., 2961
 Ritchie, David F., 3121
 Ritchie, Donald A., 668
 Ritieni, Alberto, 3378
 Rittmann, Bruce E., 300, 2156, 3847
 Ritzenthaler, Paul, 1847
 Rizzo, Nancy W., 907, 1257
 Roberts, D., 2294
 Roberts, Daniel P., 3183
 Roberts, Donald W., 907, 1257
 Roberts, G. C. K., 2966
 Roberts, Marilyn C., 269
 Roberts, Robert F., 3196
 Robertson, Lesley A., 2421
 Robertson, W. J., 2789
 Robinson, Joseph A., 26, 1583
 Robinson, T. P., 1029
 Robison, Richard A., 2681
 Rodríguez, Juan M., 2117
 Rodríguez, Mar, 1897
 Rodríguez, Susan B., 1197
 Rogers, Robert, 1129
 Roghman, Mary-Claire, 717
 Röling, Wilfred F. M., 1203
 Rölleke, Sabine, 2059
 Romalde, Jesús L., 607
 Romano, Antonio H., 2915
 Romano, Patrizia, 309
 Rombouts, F. M., 1616
 Rombouts, Frank M., 178, 1252
 Romero, Jaime, 1323
 Romick, T. L., 304
 Romine, Margaret F., 1467, 2647
 Rønnow, Birgitte, 4441
 Ronson, Clive W., 2818
 Rosenthal, Ruth A., 3521
 Ross, Andrew, 47, 2798
 Ross, R. Paul, 612
 Rossau, Rudi, 1683
 Rotilio, Domenico, 2644
 Rougeaux, Hélène, 67
 Roush, Richard T., 564
 Roussos, S., 2393
 Rouvier, Carole, 979
 Rowe, Michael T., 631
 Roy, B. P., 4417
 Rubino, Salvatore, 2375
 Rudolph, Frederick B., 2758
 Ruff-Roberts, A. L., 1045
 Ruggiero, C., 2122
 Ruimy, R., 3405
 Ruiz-Rubio, Manuel, 1604
 Rumjanek, Norma G., 1935
 Russell, James B., 196, 815, 1342, 2095, 4499, 4576
 Rüttmann-Johnson, Carmen, 3890
 Ruzzi, Maurizio, 121
 Ryan, Máire P., 612
 Ryder, Maarten H., 3991
 Rysler, Elliot T., 1781
 Saano, Aimo, 529
 Sabourin, C. L., 4352
 Saddler, Gerry S., 473
 Sadowsky, Michael J., 3489
 Sadowsky, M. J., 515
 Saey, Bernadette, 80
 Sagripanti, Jose-Luis, 545
 Saha, Badal C., 3165
 Sahl, Hans-Georg, 385
 Sahn, Hermann, 4345
 Saido, Katsuhiko, 4276
 Saiki, Hiroshi, 4224
 Saito, Yoshimasa, 2919
 Sakai, Kazuo, 3897
 Sakai, Kokki, 913, 4323
 Sakai, Yasuyoshi, 2669
 Sakka, Kazuo, 4663
 Sakuma, Syouzou, 959
 Salomon, Raffael, 3270
 Sammons, Laura E., 4114
 Samson, Régine, 2360
 Sánchez, Luz Marina, 1141
 Sánchez, María, 1167
 Sánchez, Olga, 620, 1141, 3640
 Sand, Wolfgang, 3424
 Sanderson, Jeremy, 3446
 Sandery, Michael, 3385
 Sandine, W. E., 1481
 Sanford, Robert A., 3800, 3809
 Sanjuan, Juan, 1145
 Santegeods, Cecilia M., 3922
 Santos, Helena, 2577
 Sanz, Pascual, 3712
 Satake, Mikio, 2236, 3516
 Sato, Nobuyuki, 1475
 Sato, Yukita, 3887
 Sattar, Syed A., 4252
 Sattler, Birgit, 2138
 Sauer, Uwe, 3687
 Saunders, Jon R., 668
 Saunier, Monique, 2360
 Saxena, Jyoti, 702
 Scali, Daniela, 2398
 Scarpino, Pasquale V., 203
 Schaad, Norman W., 87
 Schaalje, G. Bruce, 2681
 Schaap, Peter J., 4542
 Schäfer, Axel, 2586
 Schell, Jeff, 3581
 Schell, Mark A., 6
 Scherer, Siegfried, 1133, 1283, 3057
 Schiaffino, Angela, 2375
 Schink, Bernhard, 1458
 Schipper, Bert, 1537
 Schippers, Axel, 3424
 Schleifer, Karl-Heinz, 4329, 4641
 Schlimme, Wolfram, 3673
 Schmeer, Norbert, 4206
 Schmidt, A., 1710
 Schmidt, Herbert, 791
 Schmitt, Anja L., 415
 Schmittroth, Martina, 486
 Schneider, Anette, 3057
 Schneider, B., 2988
 Schneider, Joanne, 13
 Schneider, Palle, 834
 Schneider, Richard P., 1467
 Schneider, Rudolf, 3794
 Schneidinger, Bernd, 3391
 Schnell, S., 3203
 Schoenike, Barry, 2381, 3697
 Scholz-Muramatsu, Heidrun, 3050
 Schön, Roberto, 1526
 Schoo, N., 2603
 Schottel, Janet L., 3489
 Schraa, Gosse, 437, 3655
 Schraft, Heidi, 4229
 Schram, Brian R., 1208
 Schramm, Andreas, 4641
 Schrempf, H., 1065
 Schrempf, Hildgund, 1774
 Schroeder, I., 942
 Schulz, Arno, 3794
 Schulz, Heide N., 1855
 Schut, Frits, 3668
 Schwab, Kellogg J., 2086
 Schwartz, D., 570
 Schwartzbrod, J., 1227
 Schweitzer, Bernd, 1998
 Scotti, C., 2279
 Scupham, Alexandra J., 4260
 Searles, Denise B., 3910
 Seemüller, E., 2988
 Seigle-Murandi, F., 2477
 Selander, Robert K., 804
 Selifonov, Sergey A., 507, 756
 Selifonova, Olga V., 778
 Semple, Kirk T., 1265
 Serra, María T., 3530
 Sessitsch, Angela, 4191
 Seurinck, Jef, 80
 Sextstone, Alan J., 2457
 Shabi, Ezra, 1014
 Shahamat, M., 115
 Shain, Louis, 1984
 Shanmugam, K. T., 1220
 Shann, Jodi R., 2910
 Shao, Z. Q., 403
 Shapira, Roni, 3270
 Shapleigh, James P., 4019
 Sharak Genthner, Barbara R., 2317
 Shareck, François, 109
 Sharma, Ashu, 3933
 Sharma, Pramod K., 761, 1188
 Sharp, Richard, 4108
 Shearer, Georgia, 221
 Shelton, Anthony M., 564
 Shen, Jyunkai, 1428, 2411
 Shen, Yin, 1623
 Shephard, Gordon S., 1182
 Shepherd, K. M., 1317
 Shere, J. A., 1519
 Sherman, David H., 2540
 Shi, Y., 1084
 Shibasaki, Takeshi, 1903
 Shih, Chien-Chun, 2953
 Shih, Jason C. H., 4273
 Shih, Neng-Jen, 1441
 Shimada, Yuzo, 4663
 Shimizu, Sakayu, 2303, 3814
 Shimkets, Lawrence J., 1558
 Shimomura, Kyoichi, 2919
 Shin, Byung-Sik, 2839
 Shinoda, Sumio, 3516, 3871
 Shirai, Atsuya, 4309
 Shoda, Makoto, 4081
 Shoemaker, Nadja B., 196
 Short, Steve M., 2869
 Sigalevich, Pavel, 4210
 Siika-aho, Matti, 2883
 Sijtsma, Lolke, 1437
 Silo-Suh, Laura, 3061
 Silvester, Warwick B., 2904
 Simard, Pierre, 3459, 3544
 Simmonds, R. S., 4536
 Simon, Meinhard, 1998
 Simon, Moyra C., 822
 Simonet, Pascal, 979
 Simoni, Stefano, 749
 Sinclair, N. A., 2521
 Singer, John T., 3727
 Singer, J. T., 2513
 Sironi, Massimo, 3005
 Sivaganesan, Manohari, 203
 Skaar, I., 3614
 Skory, Christopher D., 4568
 Skroch, Paul W., 1935
 Sletten, Knut, 3313
 Smacchi, E., 3220
 Smalla, K., 2621
 Smalley, Eugene B., 1642
 Smart, C. D., 2988
 Smit, E., 2621
 Smit, John, 2013
 Smith, Darrell B., 2201
 Smith, D. M., 3858
 Smith, Geoffrey P., 680
 Smith, Julian J., 473
 Smith, Linda Tombras, 3088
 Smith, Matthew P., 3094
 Smith, Michael J., 3245
 Smith, Sandra, 3548
 Smith, Zena, 4147

- Smulski, Dana R., 2252, 4003
 Snape, Jason R., 637
 Sneh, Baruch, 3581
 Snozzi, Mario, 1493
 Sobecky, Patricia A., 6
 Sobsey, Mark D., 2074, 2086, 3772
 Soden, Alison, 4514
 Sojar, Hakimuddin T., 3933
 Solinas, Francesca, 121
 Sommaruga, Ruben, 4395
 Sommer, Regina, 1977
 Song, Jae Jun, 536
 Sonnenberg, Anton S. M., 4542
 Soong, Chee Leong, 3814
 Sorokine, Odile, 4381, 4410
 Soucaille, Philippe, 1448, 4405
 Sousa, Maria João, 3152
 Sowers, Kevin R., 2534
 Sowka, Sławomir, 2859
 Spear, Russell, 1514
 Speitel, G. E., Jr., 1124
 Spieck, Eva, 2352
 Spiller, H., 1220
 Spinnler, Henry-Eric, 2826
 Spivack, J. L., 4352
 Spormann, Alfred M., 1188
 Sprenger, Georg A., 4155
 Springthorpe, V. Susan, 4252
 Sproule, Rizwana F., 94
 Srebotnik, Ewald, 3679
 Staats, Jacques, 469
 Stabel, Thomas J., 141
 Stahl, David A., 300, 2156, 3557, 3847, 4504
 Stahl, Peter D., 4136
 Stal, Lucas J., 1752
 Staley, J. T., 3344
 Stam, Hein, 3646
 Stams, Alfons J. M., 1656, 2163
 Steele, Marina, 4229
 Steele, T. W., 1081
 Steffan, Robert J., 2716
 Steidler, Lothar, 2356
 Steinbach, Klaus, 2651
 Steinberg, Peter, 4284
 Stelma, Gerard N., 2264
 Stelma, G. N., Jr., 3350
 Stenwig, H., 3614
 Stepanauskas, Ramūnas, 2345
 Stephen, John R., 4147
 Stephens, David W., 2904
 Stewart, C. S., 4666
 Stewart, Gordon S. A. B., 1133
 Stewart, Gregory J., 2994
 Stewart, Philip, 860
 Stewart, William P., 4659
 Stiekema, Willem J., 1537, 2753
 Stiles, Michael E., 2610, 4095
 Stinear, Timothy, 3385
 St. Leger, Raymond J., 907, 1257
 Stockenström, Sonja, 1182
 Stoner, D. L., 1969
 Stosz, Sarah K., 3183
 St. Pierre, Michael, 2778
 Stratford, M., 3158
 Straub, Kristina L., 1458
 Straub, Peter F., 221
 Straube, William L., 1741
 Streit, Wolfgang R., 3333
 Strike, P., 2961
 Stringfellow, William T., 2387
 Strizhov, Nicolai, 3581
 Strobel, H. J., 1770
 Strohl, William R., 3502
 Su, Hongsheng, 2723
 Suárez, Ana M., 2117
 Suárez, Juan E., 2701
 Suberkropp, Keller, 1610
 Suflita, Joseph M., 26, 1583, 2850
 Sugiyama, Katsumi, 2940
 Sullivan, John T., 2818
 Suri, B., 1799
 Sutherland, John B., 798, 3477
 Suttle, Curtis A., 2869, 4374
 Sutton, Susan D., 2910
 Suwa, Yuichi, 2457, 2464
 Suzuki, Atsushi, 4238
 Suzuki, Hideyuki, 2692
 Suzuki, Jun, 4066
 Suzuki, Marcelino T., 625
 Suzuki, Toshiharu, 2191
 Suzuki, Yuzuru, 2066
 Suzzi, Giovanna, 309
 Swain, Rosalind A., 994
 Swaisgood, Harold E., 4273
 Swamy, Shoba C., 3768
 Swindell, Simon R., 2641
 Sydenham, Eric W., 1182
 Sylvestre, M., 2710
 Syuto, Bunei, 662
 Szekat, Christiane, 385
 Tabashnik, Bruce E., 2839
 Tabinowski, J., 2999
 Tabita, F. Robert, 1913, 3502
 Tagg, J. R., 4536
 Taguchi, Seiichi, 4652
 Tahara, Takatsugu, 892
 Tajima, Sohichi, 4340
 Takada, Satoshi, 4323
 Takano, Yoshitaka, 4340
 Takii, S., 3905
 Tal, Yossi, 2615
 Tamplin, Mark L., 3572
 Tan, Bwee, 1437
 Tan, Zilong, 469
 Tang, Juliet D., 564
 Tangney, Martin, 732
 Tanguay, Richard, 3954
 Tani, Katsuji, 275
 Tani, Yoshiki, 2669
 Tanimoto, Tomoaki, 2191
 Tannock, Gerald W., 4608
 Tao, Lin, 2111
 Tas, Éva, 529
 Tasca, Serban I., 3439
 Tate, John E., 732
 Teeri, Tuula T., 2883
 Telang, Anita J., 1623
 Temp, Ulrike, 1151
 Templeton, Joe W., 3439
 Tenkanen, Maija, 3840
 Tören, József, 4461
 Terzieva, Silva, 2264
 Teske, Andreas, 1405, 4210
 Teunissen, Pauline J. M., 259
 Thamdrup, Bo, 1391
 Thanabalu, Thirumaran, 2174
 Thayer, Donald Wayne, 1759
 Thibault, Stephanie L., 283
 Thiel, Pieter G., 1182
 Thomas, Linda V., 2006
 Thomashow, L. S., 552
 Thong, Kwai-Lin, 271
 Thorn, R. Greg, 4288
 Thorstenson, Tore, 1793, 3551
 Thune, Ronald L., 848
 Tibbles, Brian Jonathan, 694
 Tichy, Hans Volker, 3005
 Tiedje, James M., 316, 964, 974, 1159, 2053, 2501, 2953, 3800, 3809
 Tien, Ming, 860
 Tietze, E., 2621
 Timmis, Kenneth N., 367, 1805
 Tizard, Mark, 3446
 Toffanin, Annita, 4019
 Toguri, Toshihiro, 4309
 Tomochika, Ken-Ichi, 3871
 Tooley, Paul W., 87
 Top, E. M., 2470
 Toranzo, Alicia E., 607
 Torres, A., 2393
 Törrönen, Anneli, 2859
 Torsvik, Terje, 728, 1793, 3551
 Townsend, G. Todd, 2850
 Trigale, Andre, 473
 Trigale-Demery, Daniele, 473
 Triplett, Eric W., 1935, 4260
 Tros, Marijke E., 437, 3655
 Trout, James M., 3908
 Troxler, Joseph, 33
 Trudel, Luc, 3954
 Trudgill, Peter W., 3245
 Tsai, Ying-Chieh, 1093
 Tsao, G. T., 2926
 Tschäpe, H., 2621
 Tsui, C. O., 2294
 Tsuruta, Yasuto, 2338
 Tucker, William T., 1076
 Tumbula, Debra L., 4233
 Turco, R. F., 3292
 Turner, Robin F. B., 2013
 Tyler, Brett M., 2811
 Tzipori, Saul, 712
 Ueda, Shunsaku, 380
 Uemoto, Hiroaki, 4224
 Ulevicius, Vidmantas, 2264
 Ulrich, S., 4587
 Ulrich, Andreas, 1717
 Umeda, Fusako, 1004
 Umezawa, Chisae, 892
 Uozaki, Yoichi, 1903
 Upper, Christen D., 2560
 Urbain, Vincent, 2156
 Usami, Ron, 2747
 Usleber, E., 3858
 Uzzau, Sergio, 2375
 Vacek, D. C., 3453
 Valaitis, Algimantas P., 2845
 Valdés, Maria, 3034
 Valdes-Stauber, Natalia, 1283
 Valentin, Henry E., 372
 Valois, Diane, 1630
 van Alen-Boerrigter, Ingrid, 1008
 van Andel, Johan G., 601
 van Asbroeck, Marina, 1683
 Van Audenhove, Katrien, 80
 Van Beeumen, Jozef, 4220
 van Berkum, Peter, 2818
 van den Hondel, Cees
 A. M. J. J., 1951, 3646
 van der Bij, Arjan J., 1076
 van der Drift, Chris, 20
 van der Klei, Hilde, 1537, 2753
 van der Maarel, Marc J. E. C., 3978
 van der Mei, Henny C., 1958
 van der Vossen, Jos M. B. M., 41
 van der Werf, Mariët J., 3560
 van de Wijngaard, Arjan J., 3646
 Van Dorsselaer, Alain, 4381
 Van Dyk, Tina K., 2252
 Van Eldere, J., 656
 van Elsas, Jan Dirk, 1478
 van Elsas, J. D., 2621
 van Gemerden, Hans, 3640
 Van Griensven, Leo J. L. D., 4542
 Van Heiningen, W. N. M., 1471
 van Hylckama Vlieg, Johan E. T., 3304
 van Keulen, H., 2789
 van Loon, Adolphus P. G. M., 3687
 van Oirschot, Quirien, 2773
 Van Ommen Kloeke, Fintan, 1487
 Van Peteghem, C., 1880
 Van Rie, Jeroen, 80, 564
 van Rijn, Jaap, 2615
 van Schalkwijk, Saskia, 1008
 van Verseveld, Henk W., 1203
 Van Vliet, Adri, 80
 van Zyl, Willem H., 1036
 Varaldo, Pietro E., 269
 Varga, János, 4461
 Varsa, Jess A., 1444
 Vaughan, Elaine E., 1574
 Vaulot, Daniel, 1649, 2527
 Vedel, Regine, 2228
 Velraeds, Martine M. C., 1958
 Venables, Barney J., 2195
 Venema, Gerard, 1689
 Venema, Koen, 1689
 Venkateswaran, Kasthuri, 2236, 3516
 Ventosa, Antonio, 3779
 Verhe, Frederic, 1434
 Verméglio, André, 4195
 Verstraete, Willy, 2687, 3277
 Vert, M., 2393
 Vervuren, Mike B. F., 20
 Vestal, J. Robie, 2910
 Vicuna, Rafael, 2660
 Villegas, MaryCarmen, 3034
 Villemur, Richard, 809, 1908
 Vinopal, Robert T., 456
 Vionis, Anna P., 1774
 Visser, Jaap, 2179, 4542
 Vlak, Just M., 1537
 Vock, Esther H., 1526
 Vogel, Hans J., 2832
 Vogt, Gudrun, 1723
 Volcani, Benjamin E., 3779
 Volkov, Vladimir I., 3887
 Vollmer, Amy C., 2252
 Volpin, Hanne, 3030
 Von Albertini, Nina, 33
 von Löw, Eberhard, 2651
 Voordouw, Gerrit, 1623
 Voss, Maren, 986
 Vriesema, A. J. M., 3527

- Wacek, Thomas J., 4260
 Wackernagel, Wilfried, 1839
 Wagner, Christine, 486, 494
 Wagner, Fritz, 2106
 Wagner, Michael, 2156
 Waites, William M., 1699
 Walfridsson, M., 3894
 Walfridsson, Mats, 4648
 Walker, Alan E., 798
 Walker, C., 1029
 Walker, Stephen G., 2013
 Wall, Judy D., 3762
 Wallis, P. M., 2789
 Walter, S., 1065
 Walton, Jonathan D., 4129
 Wan, J., 1764
 Wan, Jason, 2897
 Wang, Chien-Sao, 2195
 Wang, Fu-Sheng, 804
 Wang, Gui-Rong, 196
 Wang, Guodong, 2567
 Wang, Hsi-Hua, 1354
 Wang, Huei-Fang, 1354
 Wang, Jo-Man, 2811
 Wang, Ping, 1670, 3066
 Wang, Rong-Fu, 1242, 1825
 Wang, Ying, 2169
 Wanner, Gerhard, 2059
 Ward, David M., 3917, 3922, 4598
 Ward, D. M., 340, 1045
 Ward, T. E., 1969
 Warikoo, Veena, 26
 Warshawsky, David, 13, 2910
 Warwar, Vitor, 74
 Wasseveld, René A., 880
 Watanabe, Kazuya, 3901
 Watanabe, Kunihiko, 2066
 Waterfield, N. R., 1452
 Watier, D., 1233
 Watve, Milind G., 4299
 Wawer, Cathrin, 1405, 2059
 Weber, Deborah B., 4114
 Weber, H., 2603
 Weber, Jennifer E., 739
 Weber, William, 3439
 Wee, Boon Yu, 2174
 Weenk, Gerard, 3668
 Weidner, Stefan, 766
 Weimer, P. J., 1084
 Weinbauer, Markus G., 4374
 Weisburg, W. G., 942
 Weiss, Petra, 1998
 Weisser, Peter, 4155
 Welch, Nancy J., 2201
 Weller, D. M., 552
 Welling, Gjal W., 3668
 Wells, James E., 1342
 Wellsbury, Peter, 772
 Wen, Zezhang, 3826
 Wenzhi, Wang, 4608
 Westerman, Ralph B., 3325
 Wettenhall, Richard E. H., 2897
 Wetzstein, Heinz-Georg, 4206
 Weyers, Holly, 1610
 Wheat, Chris, 1558
 Whitcomb, R. F., 3453
 White, David C., 1129
 White, Graham F., 637
 Whiteley, Andrew S., 1873
 Whitman, William B., 4433
 Whittam, Thomas S., 804
 Whitwam, Ross E., 860
 Wicklow, Donald T., 4036
 Widdel, Friedrich, 1238, 1458, 3605
 Widmer, Giovanni, 712
 Widmer, Kenneth W., 296
 Wiegel, Juergen, 4174, 4576
 Wiegert, Richard G., 3632
 Wieringa, Elze B. A., 2427
 Wiggins, Bruce A., 3997
 Wiggli, Markus, 3339
 Wilczok, Tadeusz, 3360
 Wilkes, Heinz, 367, 3605
 Wilkinson, Brian J., 1116
 Wille, Anton, 2138
 Willeke, Klaus, 2264
 Williams, Haydn G., 2994
 Williams, Mark D., 2540
 Williams, Valerie, 100
 Williamson, D. L., 3453
 Wilson, Ann E. J., 3146
 Wilson, David B., 196, 4256
 Wilson, J. B., 4314
 Wilson, Kate J., 4191
 Wilson, Kenneth H., 2273
 Wilson, M., 3413
 Wilson, Richard A., 3196
 Wimpenny, Julian W. T., 2006
 Wind, Bea, 601, 3594
 Winkowski, Karen, 323
 Winteler, Harald V., 3391
 Wipf, Daniel, 3541
 Wirsén, Carl O., 1593
 Wise, Mark G., 1558
 Witham, Paula K., 1347
 Withey, Simon, 3446
 Wittich, Rolf-Michael, 367
 Wohlleben, W., 570
 Wold, Agnes E., 2244
 Wolfaardt, G. M., 3939
 Wolfersberger, M. G., 279
 Wolfram, James W., 1129
 Wolin, Meyer J., 1589
 Woloshuk, C. P., 3567
 Wommack, K. Eric, 1336
 Wong, Diana C. L., 4180
 Wong, F. T. W., 4199
 Wong, J. T. Y., 4199
 Wood, H. Alan, 105
 Wood, Paul, 2598
 Woodley, Cheryl M., 254
 Woodward, Joan C., 288
 Worobo, Randy W., 4095
 Wright, Alice D., 2464
 Wright, Anita C., 717
 Wright, Maureen, 360
 Wright, R. T., 2489
 Wu, Ming-Hoi, 2811
 Wu, Qingzhong, 4174
 Wu, Quingguo, 4019
 Wu, Wei-Min, 2037
 Wyckoff, H., 4594
 Wyckoff, Herb A., 1481
 Wyman, Michael, 1073
 Wyn-Jones, A. P., 1317
 Xiao, Hao, 648
 Xu, B., 2508
 Xu, Feng, 834
 Xu, H. Howard, 1913
 Xu, Li-Hua, 244, 249
 Xue, Gang-Ping, 1889
 Xue, Weiling, 13
 Xue, Yaming, 2221
 Yagi, Kiyohito, 1004
 Yamagishi, Akihiko, 2191
 Yamaguchi, Nobuyasu, 275
 Yamai, Shiro, 725, 3023
 Yamamoto, Keizo, 2669
 Yamamoto, Keizou, 152
 Yamamoto, Kenji, 2692
 Yamamoto, Shigeo, 3871
 Yamamoto, Takashi, 1537
 Yamane, Hisakazu, 4471
 Yamane, Tsuneo, 380
 Yamashiro, Carl T., 1347
 Yan, Keying, 3053
 Yanagihara, Yasutake, 3887
 Yanase, Hideshi, 2303
 Yang, Yifan, 798
 Yano, Keiji, 2940
 Yano, Yutaka, 3897
 Yarus, Michael J., 4180
 Yassin, Rohani M., 271
 Yasuda, Nobuko, 4340
 Yaver, Debbie S., 834
 Yeh, Chuan-Mei, 1093
 Yeung, P. K. K., 4199
 Yoon, Sung Chul, 536
 Yoshihara, Kyoko, 4663
 You, Taek H., 2845
 Young, Brian A., 2845
 Yousibova, G. L., 3567
 Yu, Hao, 587, 3474
 Yu, Shiyuan, 1705
 Yu, Wei, 2356
 Yukawa, Hideaki, 2692
 Yurkov, Vladimir, 4195
 Zaat, S. A. J., 3527
 Zadrail, Frantisek, 4206
 Zaglauer, Anita, 4329
 Zagorec, Monique, 1922
 Zakharova, T., 3292
 Zala, Marcello, 33
 Zaritsky, Arieh, 3140
 Zawistowski, Jerzy, 1
 Zehnder, Alexander J. B., 437, 3655
 Zehr, Jonathan P., 1073
 Zeikus, J. Gregory, 2037, 3560
 Zeiser, A., 2603
 Zennaro, Elisabetta, 121
 Zeze, Adolphe, 2443
 Zhang, Donglu, 798, 3477
 Zhang, Min, 4465
 Zhao, Tong, 2567
 Zheng, Dandan, 4504
 Zhou, Jizhong, 316, 964, 2953
 Zhu, Yuxian, 221
 Zilberstein, Aviah, 3581
 Zimmermann, Joseph J. F., 2723
 Zipper, Christian, 749, 4318
 Zo, Young-Gun, 3112
 Zocher, Rainer, 393
 Zorrilla, Irene, 3650
 Zwietering, M. H., 1616
 Zylstra, Gerben J., 230, 1467

SUBJECT INDEX

VOLUME 62

- Abortive infection mechanisms
L. cremoris subsp. *cremoris*, 3075
- Abundance
 competitive quantitative PCR, 3787
 nitrifying bacteria, 2156
- Acanthamoeba castellanii*
 contact lenses, 3521
- Acetate
 benzoate degradation inhibition, 26
C. acetobutylicum genes, 2758
 formation in fecal microflora, 1589
 leaf litter, 4216
 oxidation and PCE dehalogenation, 4108
 prairie soil, 494
 turnover in anoxic sediments, 772
- Acetate kinase
C. acetobutylicum, 2758
- Acetic acid transport
Z. bailii, 3152
- Acetoin
 winemaking (minireview), 309
- Acetyl coenzyme A
 toluene mineralization, 964
- Acetylation
 2,4-dinitrotoluene, 2257
- 15-O-Acetyltransferase gene
F. sporotrichioides, 353
- Acholeplasma* spp.
 nisin sensitivity, 3101
- Acid tolerance
E. coli O157:H7, 1822
 enterohemorrhagic *E. coli*, 3094, 4009
L. monocytogenes, 1693, 3128
S. cerevisiae, 3158
Z. bailii, 3152
- Acidocin J1132
 two-component bacteriocin, 892
- Actinobacillus pleuropneumoniae*
 use of siderophores, 853
- Actinomycetes
 antagonism towards *Phytophthora* sp., 1630
C. equisetifolia nodules, 3034
 diversity in Yunnan, China, 244, 249
 extracellular peroxidase, 2186
 TNT transformation, 1120
- Activated sludge
 deflocculation, 1487
 functionally important population, 3901
- S-Adenosylmethionine
 veratryl alcohol synthesis, 3366
- Adherence
L. plantarum, 2244
- Adhesion
E. faecalis, 1958
P. fluorescens, 100
V. mimicus and intestine, 3871
Vibrio spp. and fish, 3650
- Aeromonads
 susceptibility to cefsulodin, 1885
- Aeromonas hydrophila*
 differential media, 3544
 inactivation by radicals, 3277
 lipase H3 gene amplification, 1167
 virulence factors, 3459
- Aflatoxigenic molds
 detection in grains, 3270
- Aflatoxins
 biosynthesis, 191, 353, 360, 3567, 4036, 4296, 4568
Fusarium spp., 4039
 nonaflatoxigenic *A. parasiticus*, 3399
- pistachios, 1197
- Agaricus bisporus*
 gene assignment to chromosomes, 4542
- Agricultural drainage water
 selenium bioremediation, 3298
- Agricultural soil
 molecular microbial diversity, 1935
- Agrobacterium radiobacter*
 attachment to roots, 3530
 glycerol trinitrate and pentaerythritol degradation, 637
- Agrobacterium tumefaciens*
 attachment to roots, 3530
 excitatory amino acid antagonist, 739
- Airborne microorganisms
 detection, enumeration, 2264
 land application of sludge, 296
 portable sampler evaluation, 1835
- Ajoene
 microbial growth inhibition, 4238
- L-Alanine production from glucose
 ancestral metabolic characteristic, 2657
- Alcaligenes eutrophus*
 gene transfer, 2521
 growth at very low rates, 147
 phenol hydroxylase expression, 3227
 trichloroethylene oxidation, 3227
- Alcaligenes faecalis*
 nitrous oxide production, 2421
- Alcaligenes* spp.
 3-chlorobenzoate degradation, 2427
- Aldehyde reductase
 gene cloning, characterization, 2303
- Alexandrium catenella*
 rRNA gene sequences, 4199
- Alfalfa
S. stanley growth, 2212
 yield improvement, 4260
- Algae
 glutofosinate as nitrogen source, 3834
P. mirabilis inhibition, 4284
 phenol degradation, 1265
- Algal viruses
 genetic diversity, 2869
- Alkaline lipase
P. pseudoalcaligenes, 1093
- Alkaline phosphatase
 impact on marine phytoplankton, 6
 psychrophilic *Arthrobacter* strain, 3732
- Alkaliphilic bacteria
 intracellular pH, 4576
- Alkaliphilic fungi
Cephalosporium sp., 3480
- Alkene monooxygenase
 induction in *Xanthobacter* spp., 61
- Alkylbenzenes
 growth of denitrifiers on crude oil, 1238
 growth of sulfate reducers on crude oil, 3605
- n-Alkynes and n-alkenes
 growth of *Graphium* spp., 2198
- Allyl alcohol
 resistant *C. butyricum*, 3499
- ALR
 aldehyde reductase gene, 2302
- Alteromonas macleodii* subsp. *fijiensis*
 new, polymer-secreting bacterium, 67
- Aluminum
 effect on *P. fluorescens*, 2778
 uptake by *B. megaterium*, 4044
- Amide compounds
 profen production, 152
- D-Amino acid oxidase
T. variabilis, 2106
- Amino acid-fermenting bacteria
 ruminal amino acid deamination, 815
- Amino acids
 deamination in the rumen, 815
 L-isoleucine production, 4345
 mapping, in apidaecin, 4652
 sequences of piscicocins V1a and V1b, 4410
- 7-Aminocephalosporanic acid
 conversion by *R. glutinis*, 2669
 enzymatic production, 2919
- 5-Aminolevulinate
 production by *E. coli*, 3560
- Aminopeptidase N
 gypsy moth CryIAc receptor, 2845
- Ammonia
 pH influence on accumulation, 4486
R. meliloti plasmid transfer, 1145
- Ammonia-oxidizing bacteria
 adaptation to anoxic habitats, 4100
 molecular ecology, 4147
- α -Amylase
 bread making, 3712
- Anabaena variabilis*
 catalyst of H₂ production, 1220
- Anaerobic bacteria
 Everglades sediments, 486
 PCR with human and animal feces, 1242
 reductive dechlorination, 2317
- Anaerobic fungi
 cellulolytic enzyme complex, 20
- Anaerobic granules
 volatile fatty acid degradation, 2037
- Anaerobic *ortho* dechlorination
 PCBs in sediments, 2534
- Anaerobic toluene degradation
A. toluolyticus, 964, 974
- Ancestral metabolism
 L-alanine from glucose, 2657
- Anobiid beetles
 yeastlike endosymbionts, 162
- Anoxic sediments
 acetate turnover, 772
 adaptation of denitrifiers, 4100
 dissimilatory arsenate reduction, 1664
- Antarctic soils
 bacterial production, 694
- Anthracene
 oxidation by *P. chrysosporium*, 3697
 oxidation by *T. versicolor*, 4563
- Anthraquinone derivatives
 sulfate respiration inhibition, 2999
- Anthrax
 detection of spores in soil, 3474
- Anthurium
 bacterial infection monitoring, 1021
- Antibacterial agents
 apidaecin, 4652
 Bac1829, 3171
 carnobacteriocin B2, 4095
 cefsulodin, 1885
 enterocin A, 1676
 honeybees, 4652
 pediocin AcH, 4381
 pediocin-like bacteriocins, 3313
 piscicocins V1a and V1b, 4410
 piscicocin 126, 2897
 production by marine bacteria, 2783

- protamine, 1058
S. aureus, 3171
 variacin, 1799
 zoocin A, 4536
Antibiotic production
 7-aminocephalosporanic acid conversion, 2669
Antibiotic resistance
 competitiveness of rhizobia, 529
 fecal streptococci, 3997
Antibiotics
 ajoene, 4238
 2,4-diacetylphloroglucinol, 552
 kanosamine, 3061
 nisin, 2966
Antifungal agents
 actinomycetes, 1630
Nepeta spp., 702
 resistant *S. tritici*, 184
Antigen-antibody complexes
 immunodetection, 2356
Antigenic surface reporter system
P. putida, 214
Antihistamines
 biotransformation, 3477
Anti-inflammatory drugs
 production from an amide compound, 152
Antilisterial bacteriocins
 bavaricin MN, 4529
 enterocin A, 1676
Aphids
 endosymbionts, 332
API 20E and NFT strips
 aquatic bacterium identification, 2183
Apidaecin
 amino acid residue mapping, 4652
Appressorium development
C. trifolii, 74
Aquarium biofilters
 nitrifying bacteria, 2888
Aquatic bacteria
 identification, 2183
Aquatic birnaviruses
 genomic variation, 2513
Aquatic environments
 actinomycete diversity, 249
 genetic transformation, 3673
 monitoring survival of GEMs, 3486
V. mimicus virulence, 3871
Aquifers
 enumeration of bacteria, 4580
Arabidopsis thaliana
S. cerevisiae ethanol tolerance, 4309
Arabinofuranosidases
 expression in *S. cerevisiae*, 3840
P. capsulatum, 168
Arabinose fermentation
 engineered *Z. mobilis* strain, 4465
Arbuscular mycorrhizal fungi
 highly repeated DNA sequence, 2443
 obligately intracellular bacteria, 3005
 semiarid ecosystems, 842
arcDABC operon
 lipase production, 3391
Arenicola marina
 bacteriolysis kinetics, 1051
Aroclor 1242
 PCB transformation, 3014
Aromatic compounds
 biodegradation, 1467
 biodegradation (letter), 3554
 oxidation, 507
Aromatic copolyesters
 biosynthesis, 536
Aromatic hydrocarbons
 degradation by oligobacteria, 2169
 degradation by *P. fluorescens*, 4471
Arsenate
 reduction to As(III) in sediment, 1664
Arthrobacter spp.
 extracellular alkaline phosphatases, 3732
 sarcosine oxidase-coenzyme interaction, 2405
Aspartate transaminase
 herbicide production, 3794
aspC
 herbicide production, 3794
Aspergillus awamori
exlA induction, repression, 3646
 protein production, 1951
Aspergillus flavus
 aflatoxin biosynthesis genes, 3567
Aspergillus nidulans
 endoxylanase X24, 3712
 sterigmatocystin synthesis, 4296
 xylanase gene expression, 2179
Aspergillus niger spores
 tailing of thermal inactivation, 3745
Aspergillus ochraceus
 ochratoxin metabolites, 648
Aspergillus oryzae
 α -amylase, 3712
mnp1 expression, 860
Aspergillus parasiticus
 aflatoxin biosynthesis, 191, 4568
 dehydrogenase gene, 360
 nonaflatoxigenic variants, 3399
Aspergillus Section Flavi
 PCR-SSCP analysis, 2947
Aspergillus spp.
 ochratoxin production, 4461
Aspergillus tamarii
 aflatoxin production, 4036
Astroviruses
 detection in water, 1811
ATH1
 yeast stress resistance, 1563
Atrazine
 biotransformation, 3587
 effects on *O. anthropi*, 2644
Atropine metabolism
Pseudomonas sp., 3245
Attaching and effacing *E. coli*
 typing assay, 3462
Attachment
Agrobacterium spp. and roots, 3530
N. frontalis and cellulose, 4666
Aureobasidium pullulans
 oligonucleotide probes, 1514
xyxA gene cloning, 209
Autographa californica nuclear polyhedrosis virus
 preoccluded virions, 105
Autoradiography
 isolation of diverse species, 4180
Avicelase
S. reticul, 1065
Avocados and almonds
C. gloeosporioides, 1014
Azatadine
 biotransformation, 3477
Azo dyes
 transformation by *S. chromofuscus*, 1814
Azoarcus toluolyticus
 anaerobic toluene metabolism, 964, 974
Azole antifungal agents
 resistant *S. tritici*, 184
Azospirillum brasilense
 nod gene inducers, 3030
Bac1829
 novel antibacterial agent, 3171
Bacillus anthracis
 detection of spores in soil, 3474
Bacillus cereus
 kanosamine production, 3061
Bacillus coagulans
 oligo-1,6-glucosidase, 2066
Bacillus licheniformis
 glucose transport, 732
Bacillus megaterium
 aluminum uptake, 4044
Bacillus methanolicus
 restriction-modification system, 1107
Bacillus sphaericus
 mosquitoicidal toxins, 2174
 spore structure, 1699
Bacillus spp.
 epidemiological typing, 4229
 fibrinolytic enzyme, 2482
 proline 3-hydroxylase, 1903
 spore resistance to pressure, 3897
Bacillus subtilis
 damping-off suppression, 4081
 physiology, metabolic fluxes, 3687
 positive selection vector, 3948
 riboflavin production, 3687
 UV-resistant spores, 2221
Bacillus thermoantarcticus
 exopolysaccharides, 3265
Bacillus thuringiensis
 bioinsecticide engineering, 4367
 biotin receptors, 2932
 CryI toxin binding to *C. suppressalis*, 1544
 CryIAc toxin in spore coat, 3722
 CryIA(b) domain III and toxicity, 1537
 CryIAc receptor in gypsy moth, 2845
 cry-type gene identification, 1369
 insecticidal crystal protein, 80, 564
 novel strain, 1306
 resistant diamondback moth, 2839
 resistant insects, 4168
 synergy between toxins, 583
 toxin domains, 2753
 δ -endotoxin CryIAa, 279
 δ -endotoxin and endochitinase synergism, 3581
Bacillus thuringiensis subsp. *aizawai*
 CryIC δ -endotoxin, 680
Bacillus thuringiensis subsp. *israelensis*
 plasmid restriction map, 3140
Bacteria and Archaea
 ancestral metabolic characteristic, 2657
Bacterial assemblages
 high mountain lakes, 2138
Bacterial communities
 diversity measurement, 4299
 genetic profiles, 3112
Bacterial enrichment
 gas-water interface, 2593
Bacterial plasmolysis
 viability indicator, 3939
Bacterial production
 antarctic soils, 694
 decomposing leaves in streams, 1610
Bacterial vaginosis
 inhibition by lactobacilli, 1089

- Bacteriocin typing**
B. solanacearum race 1, 473
- Bacteriocins**
 acidocin J1132, 892
 bavaricin MN, 4529
C. piscicola, 2897
 carnobacteriocin B2, 4095
 colicins, 3196
 dairy foods, 2111
 enterocin 4, 4220
 enterocin A, 1676
 isolation with silicate, 1764
 lactacin F, 4450
 lactacin 3147, 612
lin in corynebacteria, 1283
 meat preservation, 2610
 pediocin ACh, 4381
 pediocin-like bacteriocins, 3313
 piscicocins, 4410
 piscicolin 126, 2897
 plantaricin C, 2701
 secretion mechanism, 1689
 variacin, 1799
- Bacteriophage resistance mechanisms**
 lactococci, 676
- Bacteriophages**
 coastal waters, 4374
 lactobacilli, 2111
 lactococci, 676, 1452, 3494
Listeria spp., 3057
 LL-H of *L. delbrueckii*, 1847
 lysogeny and bacterial mortality, 4374
 phage DNA penetration, 676
 rumen, 994
 sunlight and survival, 1336
- Bacterioplankton**
 control by purple sulfur bacteria, 3251
 growth efficiency, 1991
 molecular phylogeny, 1171
 nutrient turnover, 1991
 phylogenetic compositions, 2676
- Bacterivory**
 UV radiation effect, 4395
- Bacteroides distasonis**
 selective enumeration, 735
 tryptic activity inactivation, 1434
- Bacteroides uniformis**
 shuttle vector, 196
- Bacteroides vulgatus**
 selective enumeration, 735
- Bacteroids**
 PHB metabolism, 4186
 protein synthesis, 3757
- Baculovirus preoccluded virions**
 in vivo production, stabilization, and infectivity, 105
- Baker's yeast**
 bread making, 3712
 freeze tolerance, 4401
- Baltic Sea**
 heterotrophic bacterium genotyping, 1383
 nitrogen fixation assay, 986
- Baltimore Harbor**
 sediment dechlorination, 2534
- Barium**
 bacterial dissolution from barite, 2398
- Barley**
 mycotoxins, 3858
- Barophilic bacteria**
 chemostat culture, 1593
- Bavaricin MN**
 purification, characterization, 4529
- Beauveria bassiana**
 chitinases, 907
- Beef spoilage**
 control, 2610
- Beetles**
 yeastlike endosymbionts, 162
- Beggiatoa** spp.
 carbon utilization, 947
 high nitrate concentrations, 954
- Benomyl resistance**
 β -tubulin gene, 3053
- Benzene**
 rapid anaerobic oxidation, 288
- Benzo[a]pyrene**
 biodegradation, 13
 oxidation by *T. versicolor*, 4563
- Benzoate degradation**
 inhibition by acetate, 26
- Benzylfumaric acid**
 toluene degradation, 974
- Benzylmaleic acid**
 toluene degradation, 974
- β -Subgroup ammonia-oxidizing bacteria**
 molecular ecology, 4147
- Bifidobacteria**
 microflora of humans, 4608
- Bile salts**
E. faecalis stress response, 2416
- Bioaerosols**
 $\beta(1\rightarrow3)$ -glucan measurement, 3176
- Biobleaching**
 hardwood kraft pulp, 913
- Biocarriers**
 porous nylon, 4659
- Biocatalysts**
 D-amino acid oxidase, 2106
 excitatory amino acid antagonist, 739
- Biocontrol**
Carduus weed species, 3037
 Colorado potato beetle, 3453
 damping-off, 4081
 Egyptian cotton leafworm, 3581
 microbial biofilms, 2598
 pathogenic *E. coli*, 3196
 phytopathogens, 3489
 sap-sucking insects, 1257
 soilborne diseases, 2449
 strain transport in soil, 33
V. dahliae, 3183
- Bioconversion**
 coupling with metabolism, 2216
- Biodegradable plastics**
 synthesis in insect cells, 2540
- Biodegradable polymers**
 poly(lactic acid), 2393
- Biodegradation**
 (RS)-2-(4-chloro-2-methylphenoxy)propionic acid, 4318
 alkylbenzenes in crude oil, 3605
 aromatic compounds, 1467
 aromatic compounds (letter), 3554
 aromatic hydrocarbons, 2169
 benzoate, 26
 biomass recycle reactor, 3292
 biphenyl, 3910
 biphenyls and PCBs, 2710
 chlorinated aliphatic hydrocarbons, 3371
 chlorinated dibenzofurans, 367
 chlorobenzoate, 3910
 3-chlorobenzoate, 2427
 cocaine, 94
 cumene, 4471
 2,4-D, 2457, 2464, 2470
 dibenzo-p-dioxins, 367
 1,2-dibromoethane, 4675
 dimethylsilanediol, 4352
 dinoseb, 1842
 endosulfan, 593
 enrofloxacin, 4206
 feathers, 2875, 4273
 gene transfer, 2521
 glycerol trinitrate, 637
 grass lignin, 1437, 1928
 herbicides, 4318
 hydrochlorofluorocarbons, 1818
 isopimaric acid, 3140
 isopropylbenzene, 3967, 4471
 keratin, 2875, 4273
 lactic acid-containing polymers, 2393
 lignin, 1070
 linear alkylbenzenes, 749
 mecoprop, 4318
 medieval wall paintings, 2059
 4-methylquinoline, 2910
 microbial metabolic efficiency, 2411
 microcystin LR, 4086
 organic wastes, 3292
 PCBs, 2053
 pentaerythritol, 637
 pentaerythritol tetranitrate, 1214
 perennial ryegrass, 1437
 pesticides, 593
 phenanthrene, 2387
 phenols, 1265
 poly(lactic acid), 2393
 polychlorinated dibenzofurans, 4323
 polychlorinated dibenzo-p-dioxins, 4323
 polycyclic aromatic hydrocarbons, 13, 230, 1597, 2547, 3344
 pyrene, 283
 soil-based tests and substrate addition, 1428
 styrene, 1471, 3594
 tannins, 3600
 tetrachloroethylene, 4108
 toluene, 601, 886, 964, 974, 1188, 2647, 3704, 4632
 trichloroethylene, 825, 886, 1124, 2647, 2953, 3967
 trinitrotoluene, 2651
 volatile fatty acids, 2037
 o-xylene, 3704
- Biofilms**
 biocontrol, 2598
 coliforms, 4014
 competition and coexistence, 3847
D. multivorans, 3050
 disinfection, 4428
Paracoccus spp., 4329
 structure and function, 4641
T. litoralis, 4478
 toluene degradation, 4632
- Biogeochemical cycle**
 barium, 2398
- Biohydroxylation**
 protected carboxylic acids, 2603
- Biobleaching**
 copper, 1323
 pyrite, 3424
T. caldus, 4243
- Biological containment**
 colicin E3 use, 1805
- Bioluminescence**
 bacterial leaf infection monitoring, 1021
- Biomass**
 aquifer bacteria, 4580

- Biomass recycle reactor
organic waste degradation, 3292
- Biomining
T. caldus, 4243
- Biopolymers
synthesis in insect cells, 2540
- Bioreactors
N₂ removal from wastewater, 4224
novel porous nylon biocarrier, 4659
- Bioremediation
agricultural drainage water, 3298
chlorophenol-contaminated soil, 1507
contaminated soil, 2045, 3697
dissimilatory metal-reducing bacteria, 4678
in situ remediation, 4678
microbial technetium reduction, 578
PAH-contaminated soil, 2381, 2387
pentachlorophenol-contaminated soil, 3890
screening of bacterial mutants, 3762
TNT-contaminated soil, 1120
- Biosensors
katG::*lux* fusion, 2252
luxAB, 2013
oxidative stress detection, 2252
- Biosurfactants
production by a *Pseudomonas* strain, 1908
- Biosynthesis
aflatoxins, 191, 353, 360, 3567, 4568
5-aminolevulinic, 3560
Avicelase, 1065
2,4-diacetylphloroglucinol, 552
fatty acids in *S. cerevisiae*, 4309
fumonisins, 2571
hydroxyproline, 1903
indole-3-acetic acid, 4121
L-isoleucine, 4345
labeled trehalose, 3861
melanin, 4340
novel aromatic copolyesters, 536
PHA copolymer, 1004
PHB, in insect cells, 2540
phosphinothricin tripeptide, 570
phycoobilisomes, 1964
pyrimidine, 2191
sterigmatocystin, 4296
toluene dioxygenase purification, 2133
veratryl alcohol, 3366
- Biotin overproduction
recombinant *R. meliloti*, 3333
- Biotin receptors
B. thuringiensis, 2932
- Biotransformation
atrazine, 3587
azatadine, 3477
chlorinated ethenes, 3304
chlorpromazine, 798
cyclic imides, 3814
6,6-dimethylfulvene, 756
methidiazine, 798
methylfurfural compounds, 3483
phenol, 809
polychlorinated biphenyls, 3014
TNT, 4669
trinitrotoluene, 2651
- Biphenyls
biodegradation, 2710, 3910
- Birds
C. parvum cross-transmission, 3227
- Bivalves
gill endosymbiont, 2324
- Bjerkandera* spp.
xenobiotic compound oxidation, 880
- Blanket bog peat
methanogen-specific DNA, 668
- Blastobacter* spp.
cyclic imide transformation, 3814
- Bombyx mori*
δ-endotoxin CryIAa, 279
- Borrelia burgdorferi* sensu lato
spirochete sequence comparison, 2338
- Botulism
mosaic neurotoxin, 662
- Bovine *E. coli* strains
typing assay, 3462
- Bovine feces
Cryptosporidium DNA, 643
fate of *E. coli* O157:H7, 2567
- Bovine immunodeficiency virus
thermal inactivation, 4280
- Bovine serum albumin
PCR amplification inhibition relief, 1102
- Bovine slurry
influence on soil rhizobia, 1717
- Bovine αs1-casein
B. linens proteinase specificity, 501
- bphB*
nucleotide sequence, 2710
- bphC*
P. putida, 1825
- Bradyrhizobium japonicum*
proline dehydrogenase gene, 221
protein synthesis by bacteroids, 3757
- Bread doughs
freeze-tolerant yeasts, 4401
- Bread making
endoxylanase X24 and α-amylase, 3712
- Brevibacterium linens*
bacteriocin gene *lin*, 1283
proteinase specificity on bovine αs1-casein, 501
- Broad-host-range frankiae
single-spore isolates, PCR-RFLP, 3026
- Broad-host-range plasmids
detection by PCR, 2621
- Brochothrix thermosphacta*
growth, 1029
thermal inactivation, 1029
- Broiler chickens
C. jejuni, 4614
- Brown rot fungi
laccase gene sequences, 3739
- Brucella* spp.
detection in milk, 1683
- Buchnera* spp.
aphid endosymbionts, 332
- Burkholderia cepacia*
2,4,5-T metabolism, 4276
temporal genetic variation, 1558
toluene and TCE degradation, 886
- Burkholderia solanacearum*
bacteriocin and genomic typing, 473
- Burkholderia* spp.
chromosomal 2,4-D/α-KG dioxygenase gene, 2457, 2464
- 2-sec-Butyl-4,6-dinitrophenol
biodegradation, 1842
- Butyrate
formation in fecal microflora, 1589
- c2
origin of DNA replication, 1452
- Cadmium tolerance
E. coli, 743
- Calcium
C. trifolii development, 74
- Calmodulin
C. trifolii development, 74
- Campylobacter jejuni*
vertical transmission in chickens, 4614
- Candida pelata*
novel β-glucosidase, 3165
- Candida stellata*
winemaking, 128
- Capsular envelope
morphology in marine bacteria, 4521
- Capsular polysaccharide
M. flos-aquae, 1208
- Capture ELISA
Salmonella detection in food, 2294
- Carbohydrate utilization
L. sake, 1922
- Carbon dioxide
PHA biosynthesis, 1004
uptake in a eutrophic lake, 1803
- Carbon fines
biofilm disinfection, 4428
- Carbon limitation
C. heintzii, 133
- Carbon turnover
Kansas prairie soil, 494
saprophytic basidiomycetes, 4288
- Carbon utilization
Beggiatoa spp., 947
- 5 (and 6-) Carboxyfluorescein succinimidyl ester
intracellular pH determination, 178
- Cardiulus* spp.
biocontrol, 3037
- Carnitine acyltransferases
peroxisomal fatty acid metabolism, 3864
- Carnobacteriocin B2
general secretory pathway, 4095
- Carnobacterium piscicola*
bacteriocin, 2897
piscicocins V1a and V1b, 4410
- αs1-Casein
B. linens proteinase, 501
- Cassava
lactic acid fermentation, 2854
- Casuarina equisetifolia*
actinomycetes from nodules, 3034
- Casuarinaceae
Frankia genetic diversity, 979
- Catabolic genes
P. fluorescens, 3704
P. fluorescens and styrene, 121
- Catabolic promoters
detection in *P. putida*, 214
- Catabolic traits
autoradiography to screen, 4180
- Catabolite repression
toluene degradation pathway, 601
- Catechol 2,3-dioxygenases
hypoxic environments, 1728
- Catechol siderophores
A. pleuropneumoniae, 853
- cbh1*
endochitinase expression, 2152
- Cefsulodin
susceptibility of aeromonads, coliforms, 1885
- celA*
N. patriciarum cellulase A, 1889
- celB*
marked *Rhizobium* strains, 4191
- celD*
family 9 endoglucanase gene, 898

- Cell envelope changes
o-xylene-exposed *P. putida*, 1129
- Cell light scatter
 recombinant peptide overexpression, 3042
- Cell morphology
 effect of protamine, 1058
- Cell sorting
 starved *M. luteus*, 1311
- Cell surface hydrophobicity
C. parvum, 1227
- Cell wall sugars of grasses
 biodegradation, 1437
- Cellobiohydrolase II
 activity on cotton cellulose, 2883
- Cellobiose
 phosphorolytic cleavage, 1770
- Cellobiose dehydrogenase
 cDNA sequence, *P. chrysosporium*, 1329
T. versicolor, 4417
- Cellodextrins
 phosphorolytic cleavage, 1770
 utilization by ruminal bacteria, 1084
- Cellular fatty acids
D. desulfuricans, 3360
- Cellulases
 activity on cotton cellulose, 2883
N. patriciarum, 1889
R. marinus, 3047
S. reticuli, 1065
- Cellulolytic activity
P. chrysosporium, 1329
 ruminal bacteria, 1084
- Cellulolytic bacteria
N. frontalis, 4666
- Cellulolytic enzymes
Piromyces sp., 20
- Cellulose
N. frontalis attachment, 4666
T. reesei enzyme action, 2883
- Cephalosporin C acylase
 oxidative modification, 2919
- Cephalosporium* spp.
 xylanases, 3480
- Ceriporiopsis subvermispora*
 lip-like genes, 2660
 manganese-dependent ligninolysis, 3679
 tannin degradation, 3600
- Cheddar cheese manufacture
 bacteriocin-producing starters, 612
- Cheese
L. plantarum pediocin AcH production, 4381
- Cheesemaking
 prevention of histamine formation, 1178
- Cheesemaking starter cultures
 bacteriocin-producing starter, 612
Pediococcus spp., 936
- Chelated Fe(III) forms
 anaerobic benzene oxidation, 288
- Chelatobacter heintzii*
 carbon-limited culture, 133
- Chemical nerve agents
 decontamination, 1636
- Chemoorganotrophic bacteria
 cultivation from hot spring mat, 3917
 enrichment culture, 3922
- Chemostat culture
C. beijerinckii, 3210
C. glutamicum, 429
 marine bacteria, 1593
 riboflavin-producing *B. subtilis*, 3687
S. cerevisiae, 1705
S_{min} measurement and prediction, 3655
- toluene degradation, 601
- Chemotactic response
P. sojae zoospores, 2811
- Chemotaxis
 microbial mat laminations, 3985
- Chesapeake Bay
V. vulnificus, 717
- Chestnut blight fungus
engp-1 cloning, disruption, 1984
- Chickens
C. jejuni, 4614
- Chickpeas
 PHB metabolism in bacteroids, 4186
- Chilo suppressalis*
 Cry1 toxin binding, 1544
- Chiral 3-phenylbutyric acid degradation
R. rhodochrous, 749
- Chitin
S. lividans exochitinase, 1774
- Chitinases
 entomopathogenic fungi, 907
- Chlamydia* spp.
Mycoplasma contamination, 328
- Chlamydomonas reinhardtii*
 phosphinothricin resistance, 3834
- Chlorinated aliphatic hydrocarbons
 biodegradation, 3371
- Chlorinated dibenzofurans
 biodegradation, 367
- Chlorinated ethenes
 transformation kinetics, 3304
- Chlorine
S. stanley killing, 2212
- (*RS*)-2-(4-Chloro-2-methylphenoxy)propionic acid
 biodegradation, 4318
- 3-Chloro-4-hydroxybenzoate
 reductive dechlorination, 3800, 3809
- Chloroaromatic compounds
 metabolism by *B. cepacia*, 4276
 mineralization in soils, 1159
- Chlorobenzoate
 biodegradation, 3910
- 3-Chlorobenzoate
 biodegradation, 2317
 degradation by *Alcaligenes* spp., 2427
 mineralization in soils, 1159
 transformation at low concentration, 437
- Chloroform
 mineralization, 2716
- Chloromethane
 veratryl alcohol synthesis, 3366
- 2-Chlorophenol
 biodegradation, 2317
- Chlorophenol-contaminated soil
 bioremediation, 1507
- Chlorophenolic compounds
 reductive dechlorination, 3800, 3809
- Chlorpromazine
 biotransformation, 798
- Cholera
 developing countries, 2508
- Chromosomally encoded genes
 2,4-D degradation, 2457, 2464
- Chungkook-Jang
 fibrinolytic *Bacillus* strain, 2482
- Cinnamoyl coenzyme A
 toluene mineralization, 964
- Citrate
 fermentation by *L. oenos*, 2577
- Citronellol
 microbial esterification, 2216
- Class II transposons
 soil bacteria, 2961
- Clavibacter michiganensis* subsp. *sepedonicus*
 genetic transformation, 1500
- Cloning
 acetate formation pathway genes, 2758
 aldehyde reductase gene, 2303
 α -L-arabinofuranosidase gene, 3840
B. subtilis DNA, 3948
 chestnut blight fungus gene, 1984
 2,3-dihydroxybiphenyl 1,2-dioxygenase gene, 2940
 endo- β 1,4-xylanase genes, 4129
engp-1, 1984
 indolepyruvate decarboxylase gene, 4121
 isocitrate dehydrogenase gene, 4627
 isopropylbenzene degradation genes, 3967
L. lactis, 1008
 lactococcal R/M system genes, 3494
 malolactic enzyme genes, 1274
 melanin biosynthesis gene, 4340
 mosaic neurotoxin gene, 662
 nerve agent-decontaminating enzyme gene, 1636
 PAH degradation genes, 230
 phenol hydroxylase gene(s), 3227
Pseudomonas genes, 3538
S. bovis malic enzyme gene, 2692
SCD1, 4340
 styrene catabolism genes, 121
T. fusca protease gene, 4256
T. villosa laccase genes, 834
 toluene degradation genes, 3704
XYL2 and *XYL3* from *C. carbonum*, 4129
xylA in *S. cerevisiae*, 4648
 xylanase gene, 2179
o-xylene degradation genes, 3704
 β -xylosidase gene, 3840
- Clostridium acetobutylicum*
 acetate formation pathway, 2758
- Clostridium beijerinckii*
 chemostat cultivation, 3210
 stable solvent production, 3210
- Clostridium bifermentans*
 dinoseb degradation, 1842
 TNT transformation, 4669
- Clostridium botulinum*
 growth from spores, 2664
- Clostridium botulinum* type C
 mosaic neurotoxin gene, 662
- Clostridium butyricum*
 allyl alcohol resistance, 3499
- Clostridium paradoxum*
 intracellular pH, 4576
- Clostridium perfringens*
 sewage contamination indicator, 1741
 sporulation-promoting ability, 1441
- Clostridium* spp.
 anaerobic desulfonation, 1526
- Clustering
 marine bacteria, 3716
- Coaggregation
C. testosteroni and yeast cells, 2687
- Coastal waters of the Gulf of Mexico
 significance of lysogeny, 4374
- Cocaine
 degradation, 94
- Cochliobolus carbonum*
XYL2 and *XYL3*, 4129
- Coculture
 molecular identification, 4210
- Codakia orbicularis*
 gill endosymbiont, 2324

- Cold shock promoters
 recombinant protein expression, 1441
- Cold stress proteins
 L. monocytogenes, 1116
- Cold-smoked salmon
 L. monocytogenes, 822
- Colicin E3
 use for biological containment, 1805
- Colicins
 diarrheagenic *E. coli* inhibition, 3196
- Coliform bacteria
 biofilms, 4014
 detection in foods, 2236
 regrowth in drinking water, 2201
 susceptibility to cefsulodin, 1885
- Colletotrichum gloeosporioides*
 characterization, 1014
- Colletotrichum lagenarium*
 scytalone dehydratase gene, 4340
- Colletotrichum trifolii*
 calcium-calmodulin effects, 74
- Colonization
 biofilms and carbon fines, 4428
- Colony phenotype
 C. testosteroni, 2687
- Colorado potato beetle
 biocontrol, 3453
- Comamonas acidovorans*
 cocaine degradation, 94
 profen production, 152
- Comamonas testosteroni*
 biphenyl degradation enzyme, 2710
 colony phenotype, 2687
 genes for hydrocarbon degradation, 230
- Community structure
 genetic profiles, 3112
 high mountain lake bacteria, 2138
 molecular identification, 4210
 phenol feeding pattern effects, 2953
 ribosome isolation from soil, 4162
 Thioploca spp., 1855
- Competition
 human colonic ecosystem, 3632
 sulfate reducers and methanogens in biofilms, 3847
- Competitive ELISA
 nisin, 2117
- Competitive quantitative PCR
 bacterial abundance, 3787
- Competitiveness
 rhizobia, 529
- Composts
 damping-off suppression, 1550
 isolation of *Thermus* spp., 1723
- Computer analyses
 primer and probe hybridization potential, 872
- Computer models
 microbial competition, 3632
- Conjugated bile acids
 thermostable direct hemolysin production, 3023
- Contact lenses
 A. castellanii, 3521
- Continuous culture
 C. beijerinckii, 3210
 C. heintzii, 133
 E. coli, 1493
 filamentous fungi, 3646
 mixed-substrate growth, 1493
 phototrophic sulfur oxidizers, 3640
- Copper
 toxicity towards *S. cerevisiae*, 3960
- Copper bioleaching
 bacterial populations, 1323
- Copper-resistant methanogens
 isolation from soil, 2629
- Corn
 mycotoxins, 1642
- Corynebacterium glutamicum*
 growth on glucose, 429
 isoleucine excretion, 3238
 L-isoleucine production, 4345
 sucrose metabolism, 3878
- Cotton cellulose
 T. reesei enzyme action, 2883
- Coumarin
 N. frontalis attachment to cellulose, 4666
- Crassostrea virginica*
 V. vulnificus reduction, 3875
- Creeping bentgrass
 damping-off and root rot, 1550
- Cristispira* spp.
 phylogenetic position, 942
- Cross-resistance
 diamondback moth and toxins, 2839
- Crude oil
 growth of denitrifying bacteria, 1238
 utilization by sulfate reducers, 3605
- CryI
 binding in *C. suppressalis*, 1544
- CryIAc
 B. thuringiensis spore coat, 3722
 resistant insects, 4168
- CryIA(b)
 domain III substitution and toxicity, 1537
- CryIA δ -endotoxins
 site-directed mutations, 279
 synergistic effect on gypsy moth, 583
- CryIAc
 specific receptor in gypsy moth, 2845
- CryIC δ -endotoxins
 mosquitocidal activity, 680
- Cryphonectria parasitica*
 $engp-1$ disruption, 1984
- Cryptosporidium* oocysts
 drinking water in Canada, 2789, 2798
- Cryptosporidium parvum*
 cross-transmission, 3227
 detection in milk, 3259
 detection in wastewater, 2081
 disinfection, 3908
 DNA detection and recovery, 643
 hydrophobicity and zeta potential, 1227
 oocyst detection in water, 1317, 3385
 pasteurization effect, 2866
 ribosomal repeat heterogeneity, 712
 temperature and oocyst viability, 1431
- cry*-type insecticidal protein genes
 identification by PCR-RFLP, 1369
- cspA*
 recombinant protein expression, 1441
- Culture
 Colorado potato beetle spiroplasma, 3453
 hot spring microbial mat bacteria, 3917
 V. anguillarum, 443
- Culture age
 polyol, trehalose in conidia, 2435
- Culture supernatant fluids
 sporulation-promoting ability, 1441
- Culture variability
 tuberculoicidal testing, 2681
- Cumene
 biodegradation, 4471
- Cunninghamella blakesleeana*
 biohydroxylation of carboxylic acids, 2603
- Cunninghamella elegans*
 azatidine transformation, 3477
 phenothiazine transformation, 798
- Cutinase
 Fusarium spp., 456
- Cyanide oxidation
 P. fluorescens, 2195
- 5-Cyano-2,3-ditolyl tetrazolium chloride
 effects on bacterial metabolism, 4587
- Cyanobacteria
 catalysts of H_2 production, 1220
 fermentation, 1752
 genetic manipulation system, 1747
 M. chthonoplastes, 3284
 metal ion effect on capsule, 1208
 nitrogenase gene expression, 1073
 novel insertion element, 1964
 photosynthate partitioning and fermentation, 4598
 sulfur reduction, 1752
 toxins, 4086
- Cyanobacterial surface scums
 carbon dioxide uptake, 1803
- Cyathus stercoreus*
 tannin degradation, 3600
- Cyclic imides
 novel metabolic pathway, 3814
- Cycloalkylcarboxylic acids
 biohydroxylation, 2603
- Cyclodiene pesticides
 biodegradation, 593
- Cyclohexenoesculentin- β -D-galactoside
 β -galactosidase detection, 3868
- Cyclopiazonic acid
 production by *A. tamarii*, 4036
- Cytochrome P-450
 Rhodococcus thcB gene, 403
- Cytophaga* spp.
 genetic manipulation, 3017
- Dairy farms
 E. coli O157:H7, 1519
- Damping-off
 suppression by *B. subtilis*, 4081
 suppression by composts, 1550
 suppression by siderophores, 865
- Dead Sea
 phylogeny of halophiles, 3779
- γ -Decalactone
 Sporidiobolus spp., 2826
- Dechlorination
 chlorophenolic compounds, 3800, 3809
 PCBs in sediments, 2534
 polychlorinated dibenzo-*p*-dioxins, 4556
 2,3,4,6-tetrachlorobiphenyl, 4174
- Decomposing leaves
 fungal, bacterial production, 1610
- Decontamination
 chemical nerve agents, 1636
- Deep-sea deposit feeders
 bacteriolytic kinetics, 1051
- Deep-sea hydrothermal vents
 A. macleodii subsp. *fijiensis*, 67
- Deep-subsurface sediments
 bacterial diversity, 3405
 toluene and TCE degradation, 2647
- Deep-water sewage disposal
 long-term ecological impact, 1741
- Dehalogenation
 tetrachloroethylene, 4108
- Dehalospirillum multivorans*
 quantification in biofilms, 3050

- Dehydroalanine-5
role in nisin, 2966
- Dehydrogenase gene
A. parviticus, 360
- 7 α -Dehydroxylation
stimulation by taurocholic acid, 656
- Dekkera-Brettanomyces* strains
detection in sherry, 998
- Delisea pulchra*
P. mirabilis inhibition, 4284
- Demethylation
dimethylsulfoniopropionate, 3978
- Denaturing gradient gel electrophoresis
bacteria in biodegraded paintings, 2059
bacteria from a coculture, 4210
microbial mat community profiles, 340, 3922
- Denitrifying bacteria
a microsensor for nitrate, 1248
growth on crude oil, 1238
population analysis, 4329
- Denitrifying reactors
VFAs and nitrite accumulation, 2615
- Dental units
waterline contamination, 3954
- Desert soil
natural mycorrhizal potential, 842
- Desulfotobacterium chlororespirans* sp. nov.
halorespiration, 3800
reductive dehalogenase, 3809
- Desulfonation
2-(4-sulfophenyl)butyrate, 1526
4-tolylsulfonate, 1526
- Desulfovibrio desulfuricans*
cellular fatty acids, 3360
dissolution of barium from barite, 2398
transposon mutagenesis, 3762
- Desulfurization
coal, 1969
dibenzothiophene, 1670, 3066
- Detection
aflatoxigenic mold in grain, 3270
airborne microorganisms, 2264
arbuscular mycorrhizal fungi, 2443
astroviruses in water, 1811
B. anthracis spores, 3474
broad-host-range plasmids, 2621
C. parvum in milk, 3259
Cryptosporidium DNA, 643
Cryptosporidium oocysts in water, 1317
Cryptosporidium parvum, 2081, 3385
enteric viruses in oysters, 2074, 3772
enteric viruses in water, 2086
etiologic agent of NHP of shrimp, 3439
 β -galactosidase, 3868
Giardia cysts in water, 1317
Giardia spp., 2081
H7 antigen of *E. coli*, 3325
infectious enteroviruses, 1424
L. monocytogenes, 822
M. chlorophenolicum, 1478
M. paratuberculosis in milk, 3446
marked *Rhizobium* strains, 4191
mosaic neurotoxin gene, 662
mycotoxin in barley, 3858
nisin A in food, 2117
Nitrobacter spp., 2352
Norwalk virus, 254
oxidative stress, 2252
probiotic *Bifidobacterium* strain, 3668
proline 3-hydroxylase, 1903
propionate oxidizers in sludge, 1656
R. salmoninarum, 3929
salmon pathogens, 3929
Salmonella spp., 4303
Salmonella spp. in food, 2294
shiga-like toxin genes, 1347
specific bacterial cells, 275
stratified bacterioplankton populations, 1171
V. anguillarum, 443
V. parahaemolyticus, 3516
V. vulnificus, 1378
verocytotoxigenic *E. coli*, 4314
viable *Listeria* cells, 1133
viruses in oysters, 4268
yeasts in sherry, 998
- Detergents
E. faecalis stress response, 2416
- Developing countries
water and *V. cholerae*, 2508
- Diacetyl
metabolism by *L. lactis*, 2641
production by *L. lactis*, 2636
- 3,15-Diacetyldeoxynivalenol
Manitoba barley, 3858
- 2,4-Diacetylphloroglucinol
production by pseudomonads, 552
- Diamondback moth
B. thuringiensis toxicity, 564, 2839
- Diarrheagenic *E. coli*
inhibition by colicins, 3196
- Diatomite calcium silicate
bacteriocin isolation, 1764
- Dibenzofuran
stereospecific oxidation, 4073
- Dibenzo-*p*-dioxins
biodegradation, 367
- Dibenzothiophene
desulfurization, 3066
desulfurization by *R. erythropolis*, 1670
stereospecific oxidation, 4073
- 1,2-Dibromoethane
biodegradation, 4675
- cis*-1,2-Dichloroethene
tetrachloroethene dehalogenation, 761
- 2,4-Dichlorophenoxyacetate
mineralization in soils, 1159
- 2,4-Dichlorophenoxyacetic acid
biodegradation, 2470
degradation by *Burkholderia* spp., 2457, 2464
- 2,4-Dichlorophenoxyacetic acid/ α -ketoglutarate dioxygenase
2,4-D degradation, 2457, 2464, 2470
- Differential media
A. hydrophila, 3544
V. harveyi, 3548
- Diffusion of substrates
bacterial growth, 2286
- 6,7-Dihydro-5H-benzocycloheptene
bacterial oxidation, 1364
- 2,3-Dihydro-2,3-dihydroxybiphenyl-2,3-dehydrogenase
characterization, gene sequence, 2710
- 9,10-Dihydroanthracene
stereospecific oxidation, 3355
- Dihydrogen
fructose photodissimilation, 1220
- Dihydrogenase-catalyzed oxidation
6,7-dihydro-5H-benzocycloheptene, 1364
- 1,2-Dihydronaphthalene
oxidation by *S. yanoikuyae*, 4388
- 9,10-Dihydrophenanthrene
stereospecific oxidation, 3355
- Dihydroxyacetone kinases
S. pombe, 4663
- 1,8-Dihydroxyanthraquinone
sulfate respiration inhibition, 2999
- 2,3-Dihydroxybiphenyl 1,2-dioxygenase
P. putida, 1825
Pseudomonas sp., 262
Rhodococcus strain, 2940
- 6,6-Dimethylfulvene
biotransformation, 756
- Dimethylsilanediol
biodegradation, 4352
- Dimethylsulfoniopropionate
demethylation, 3978
- 2,4-Dinitrophenols
metabolism, 784
- 2,4-Dinitrotoluene
microbial reduction, acetylation, 2257
- Dinoseb
biodegradation, 1842
- Dioxins
dechlorination, 4556
- Dioxygenase gene probes
PCB degradation, 2053
- Dipstick enzyme immunoassay
mycotoxin detection in wheat, 1880
- Disinfection
biofilms, 4428
C. parvum oocysts, 3908
HOCl mode of action, 4003
spores, 545
water, 4003
- Dissimilatory arsenate reduction
anoxic sediments, 1664
- Dissimilatory metal-reducing bacteria
starvation responses, 4678
- Dissolved organic carbon
microbial utilization, 2489
- Dissolved organic matter
contribution by marine bacteria, 4521
- Distant naphthalene
bacterial growth, 2286
- Distribution
bacteria in a fjord, 1391, 1405
bacteriocin gene *lin*, 1283
ISR12 in *R. leguminosarum*, 685
R. leguminosarum, 4202
thermophilic sulfate reducers, 1793
toluene-degrading *P. putida*, 4632
V. vulnificus, 717
- Diuraphis noxia*
endosymbionts, 332
- Diversity
actinomycetes in China, 244, 249
ammonia-oxidizing bacteria, 4147
autoradiography to screen, 4180
bacteria in deep clay sediments, 3405
bacteria in marine sediment, 4049
bacterial communities, 4299
dioxin-dechlorinating populations, 4556
hot spring *Synechococcus* populations, 1045
Lake Erie planktonic bacteria, 1913
methylophilic *Hyphomicrobium* spp., 522
 N_2 fixation genes in termite symbionts, 2747
seagrass microorganisms, 766
soil microbial communities, 1935
termite intestinal bacteria, 461
tetrameric restriction enzymes, 2501
- DNA
direct selection in *B. subtilis*, 3948
recovery from soils, 316

- UV-resistant *B. subtilis*, 2221
- DNA extraction
L. monocytogenes detection, 822
 sediments, 3905
- DNA fingerprinting
 typing of rhizobia, 2029
- DNA hybridization
V. anguillarum, 443
- DNA polymorphism
 morels, 3541
- Dose-rate effect
 UV inactivation of yeast, 1977
- Drinking water
A. hydrophila, 3459
 biofilm disinfection, 4428
 coliform persistence, 4014
 coliform regrowth, 2201
Cryptosporidium oocysts, 2789, 2798
E. coli recoveries, 203
 fecal bacterium inactivation, 399
Giardia cysts, 2789, 2798
Giardia sp., 47
 plankton-associated *V. cholerae*, 2508
 total coliform recoveries, 203
- Drying
 lactic acid bacteria, 259
- Earthworms
 bacterial gene transfer, 515
- Ectomycorrhizal fungi
gpd gene for identification, 3432
- Edwardsiella ictaluri*
 defined minimal medium, 848
- Eels
 pathogens, 450
V. vulnificus biotype 2, 918, 928
V. vulnificus detection, 1378
- Electrophoretic karyotypes
S. sclerotiorum, 4247
- Electrostatic cell surface
C. parvum, 1227
- Endochitinase
 expression in *T. harzianum*, 2152
 expression in *T. reesei*, 2145
 synergism with δ -endotoxin, 3581
- Endoglucanase
F. succinogenes, 898
- Endoglucanase I
 activity on cotton cellulose, 2883
- β -1,4-D-Endoglucanase gene
 transfer to *P. ruminicola* and *B. uniformis*, 196
- Endopolygalacturonase
 chestnut blight fungus, 1984
- Endosulfan
 biodegradation, 593
- Endosymbionts
 anobiid beetles, 162
 aphids, 332
 mycorrhizal fungi, 3005
 tropical lucinid bivalves, 2324
- δ -Endotoxin
 synergism with endochitinase, 3581
- Endoxylanase X24
 bread making, 3712
- Endo- β 1,4-xylanase
 gene cloning, 4129
- Energy requirements
A. eutrophus, 147
- Energy-spilling reaction
S. bovis, 2095
- Enniatin
 production by *Fusarium* strains, 393
- enpg-1*
 cloning, targeted disruption, 1984
- Enrofloxacin
 biodegradation, 4206
- Enteric viruses
 detection in oysters, 2074, 3772
 detection in water, 2086
- Enterobacter agglomerans*
 glycerol fermentation, 4405
- Enterobacter cloacae*
 pentaerythritol tetranitrate degradation, 1214
- Enterobacteria
 glycerol fermentation, 1448
 seawater and sunlight effects, 4621
- Enterocin 4
 purification, characterization, 4220
- Enterocin A
 characterization, 1676
- Enterococci
 enumeration in water, 3881
- Enterococcus faecalis*
 adhesion inhibition, 1958
 detergent-induced stress responses, 2416
 enterocin 4, 4220
- Enterococcus faecium*
 enterocin A, 1676
 stable cryptic plasmid, 1481
- Enterococcus* spp.
 infection of turbot, 607
- Enterohemorrhagic *Escherichia coli*
 acid resistance, 3094
 fate in bovine feces, 2567
 glucose and acid tolerance, 4009
p gene, 791
 prevalence in sewage, 3466
- Enterolert
 enterococcus enumeration, 3881
- Enterotoxigenic cocci
 Iberian ham, 1897
- Enteroviruses
 detection, 1424
- Entomopathogenic fungi
 chitinases, 907
 polyols and trehalose in conidia, 2435
 trypsin, 1257
- Enumeration
 airborne microorganisms, 2264
 aquifer bacteria, 4580
E. coli in water, 4032
 enterococci in water, 3881
 fecal microflora, 735
 fungi from silage, 3614
 PAH-degrading bacteria, 3344
 viable pelagic bacteria, 174
- Environmental water concentrates
C. parvum oocyst detection, 3385
- Enzyme-linked immunosorbent assay
D. multivorans in biofilms, 3050
- Enzymes
 bread making, 3712
C. heintzii, 133
L. sanfrancisco, 3220
 microcystin LR degradation, 4086
 PHB metabolism in bacteroids, 4186
 regulation in *L. lactis*, 156
- Epidemiological typing
Bacillus spp. from food, 4229
- Epiphytic bacteria
 immigration and establishment, 2978
- Epoxidase
 induction in *Xanthobacter* spp., 61
- Ergosterol
 fungus-colonized plant tissue, 415
- Erwinia chrysanthemi*
 characterization, 2228
- Erwinia herbicola*
 indole-3-acetic acid synthesis, 4121
- Erythromycin resistance
Listeria spp., 269
- Escherichia coli*
 5-aminolevulinic acid production, 3560
 biosensor for oxidative stress, 2252
 cadmium tolerance, 743
 competence development in freshwater, 3673
 confirmational identification, 3350
 detection in foods, 2236
 enteropathogenicity in seawater, 4621
 ethanol production, 4594
 heat shock and *saxRS* activation, 4003
hepB and *hepC* expression, 2723
 human cytokine export, 55
 labeled trehalose production, 3861
 low-temperature protein expression, 1441
 MAb to detect H7 antigen, 3325
 mixed-substrate growth, 1493
 oxygen consumption stimulation, 1831
 recovery from drinking water, 203
 shiga-like toxin gene detection, 1347
 succinic acid production, 1808
 test media for monitoring, 4032
 typing of bovine strains, 3462
 viable but nonculturable state, 4114, 4621
- Escherichia coli* K-12
 RubisCO overproduction, 3502
- Escherichia coli* O157
p gene, 791
- Escherichia coli* O157:H7
 acid, heat, salt tolerance, 1822
 dairy farms in Wisconsin, 1519
 detection in foods, 587, 3325
 detection in water, 587
 fate in bovine feces, 2567
 inhibition by colicins, 3196
 survival in broth and salami, 2735
- Esterase electrophoresis
L. monocytogenes, 1461
- Esterification
 citronellol, 2216
- Estuaries
 bacterioplankton, 2676
- Estuarine dissolved organic carbon
 microbial utilization, 2489
- Estuarine sediments
 PCB dechlorination, 2534
- Ethanol
 acetic acid transport in yeasts, 3152
- Ethanol concentration
Pectinatus sp. growth, 1233
- Ethanol production
 arabinose-fermenting *Z. mobilis*, 4465
E. coli *pet* plasmids, 4594
 nitrogen effect on *S. cerevisiae*, 3187
 novel β -glucosidase, 3165
 xylose fermentation, 4648
Z. mobilis, 4155
- Ethanol tolerance
S. cerevisiae, 4309
- Ethylbenzene
 oxidation, 3101
- Eutrophic lakes
 carbon dioxide uptake, 1803
- Everglades sediments
 anaerobic microflora, 486

- Excitatory amino acid antagonist
stereospecific preparation, 739
- exlA*
induction, repression in *A. awamori*, 3646
- Exochitinases
S. lividans, 1774
- Exophiala jeanselmei*
styrene metabolism, 1471
- Exopolysaccharide
B. thermoantarcticus, 3265
C. testosteroni, 2687
T. litoralis, 4478
- Extracellular enzymes
B. linens, 501
psychrophilic *Arthrobacter* strain, 3732
- Extracellular peroxidase
actinomycetes, 2186
- Facultative anaerobes
sulfur reduction, 2100
- FAD2*
expression in *S. cerevisiae*, 4309
- Family 9 endoglucanase genes
F. succinogenes, 898
- fas-IA*
aflatoxin biosynthesis, 191
- Fast Red TR in situ hybridization
specific bacterial cell detection, 275
- Fatty acid methyl ester profiles
aquatic bacteria, 2183
- Fatty acid synthase
PHB synthesis, 2540
- Fatty acids
D. desulfuricans, 3360
differentiation of filamentous fungi, 4136
formation in fecal microflora, 1589
marine bacterium identification, 2122
O. anthropi, 2644
P. putida and stress, 2773
plasma membrane and copper toxicity, 3960
synthesis in *S. cerevisiae*, 4309
- Feather keratin
hydrolysis, 4273
- Feather-degrading bacteria
F. pennavorans, 2875
- Fecal bacteria
 7α -dehydroxylation stimulation, 656
inactivation in drinking water, 399
probiotic bifidobacterium, 3668
- Fecal microflora
bifidobacteria and lactobacilli, 4608
fermentation pathways, 1589
molecular analysis, 4608
PCR detection, quantitation, 1242
selective enumeration, 735
- Fecal samples
verocytotoxinogenic *E. coli*, 4314
- Fecal streptococci
antibiotic resistance, 3997
fast confirmation, 2177
- Fed-batch culture
toluene and TCE degradation, 886
- Fermentation
cassava flour, 2854
citrate and sugar (*L. oenos*), 2577
E. agglomerans and glycerol, 4405
E. coli K-12, 3502
hot spring microbial mats, 4598
M. chthonoplastes, 1752
RubisCO overproduction, 3502
xylose, 4648
Z. mobilis and arabinose, 4465
- Fermented-soybean sauce
fibrinolytic *Bacillus* strain, 2482
- Ferric iron
anaerobic benzene oxidation, 288
- Ferrous iron
A. hydrophila inactivation, 3277
microbial oxidation, 1458
- Ferulic acid
polymerization by fungi, 3890
- Fervidobacterium pennavorans*
keratin degradation, 2875
- Fiber optics
single colony imaging, 3339
- Fibrinolytic enzymes
Bacillus strain, 2482
- Fibrobacter succinogenes*
family 9 endoglucanase genes, 898
lysis, 1342
- Filamentous fungi
fatty acid differentiation, 4136
protein production, 1951
- Filamentous gliding bacteria
carbon utilization, 947
high nitrate concentrations, 954
- Filtration
plankton-associated *V. cholerae*, 2508
- fimA*
PCR amplification, 4303
- Fimbrillin
expression on *S. gordonii*, 3933
- Fish
antibacterial protamine, 1058
aquatic birnaviruses, 2513
Enterococcus spp., 607
pathogenic *E. ictaluri*, 848
pathogenic *V. anguillarum*, 3727
R. salmoninarum detection, 3929
V. anguillarum detection, 443
V. vulnificus biotype 2, 918, 928
vaccines, 3727
Vibrio adhesion, 3650
- Fjords
bacterial distribution, 1391, 1465
- Flavin adenine dinucleotide
interaction with *Arthrobacter* sarcosine oxidase, 2405
- Flavobacterium heparinum*
heparinase gene expression, 2723
- Flavobacterium* spp.
genetic manipulation, 3017
- Flexibacter* spp.
genetic manipulation, 3017
- Flocs
stabilization for microscopy, 3508
- Flow cytometry
aquifer bacterium enumeration, 4580
marine prokaryotes, 1649
starved *M. luteus*, 1311
- Fluorene
oxidation by *P. chrysosporium*, 1788
stereospecific oxidation, 4073
- Fluorescent antibodies
C. parvum and *Giardia* detection, 2081
- Fluorescent pseudomonads
2,4-diacetylphloroglucinol production, 552
outer membrane proteins, 480
phenotypic and genotypic study, 3818
selection by plants, 2449
soil influence on diversity, 2449
- Fluorimetric methods
phototroph growth measurement, 237
- Fluorogenic assays
V. parahaemolyticus, 3516
- Fluoroquinolones
degradation by fungi, 4206
- Food
A. hydrophila, 3459
Bacillus spp., 4229
bacteriocins, 1764, 4410
coliform bacteria, 2236
E. coli, 2236
E. coli O157:H7, 587
enterotoxigenic cocci, 1897
fermented Indonesian soy mash, 1203
L. innocua growth, 1616
L. lactis vectors, 1008
L. monocytogenes, 4293
L. monocytogenes survival, 3128
Lactobacillus phage, bacteriocins, 2111
Listeria spp., 1781
mushroom breeding, 4542
nisin A detection, 2117
S. typhimurium, 587
Salmonella spp., 2294
staphylococcal enterotoxin A, 3274
V. parahaemolyticus, 3516
- Food preservation
beef, 2610
Lactobacillus spp., 4450
nisin A, 2117
yeast acid tolerance, 3152, 3158
- Food-borne bacteria and yeasts
nisin inhibition, 2006
- Foo-foo (cassava flour)
lactic acid fermentation, 2854
- Formate
metabolism, 3535
- Frankia* spp.
genetic diversity, 979
16S rRNA genes, 2904
single-spore isolates of flexible strain, 3026
- Free chlorine
mode of action against bacteria, 4003
- Free radicals
A. hydrophila inactivation, 3277
- Freeze tolerance
baker's yeast, 4401
- Fructose
photodissimilation to H_2 , CO_2 , 1220
Fructose 1,6-diphosphate
energy spilling in *S. bovis*, 2095
Fructose phosphotransferase
C. glutamicum sucrose metabolism, 3878
- Fumaric acid
R. oryzae, 2926
- Fumonisin
F. moniliforme, 1182
G. fujikuroi, 1182, 2571
- Fungal chitinases
entomopathogenic fungi, 907
- Fungal conidia
polyol, trehalose contents, 2435
- Fungal propagules
entomopathogenic fungi, 2435
- Fungi
air sampling, 1835
decomposing leaves in streams, 1610
DNA polymorphism in morels, 3541
ergosterol in plant tissue, 415
fatty acid differentiation, 4136
indoor climate assessment, 959
isolation from soil, 4288
obligately intracellular bacteria, 3005
ochratoxin production, 4461
PCP polymerization, 3890
root rot in seedlings, 4026

- silage, 3614
soil bioremediation, 2045
systematic breeding, 4542
trypsins, 1257
xylanases, 3480
- Furfural**
transformation of methylfurfural compounds, 3483
- Fusaproliferin**
production by *F. subglutinans*, 3378
- Fusaric acid**
production by *Fusarium* spp., 4039
- Fusarium moniliforme*
mycotoxins, 1182
- Fusarium oxysporum* f. sp. *lycopersici*
tomatinase, 1604
- Fusarium sporotrichioides*
15-O-acetyltransferase gene, 353
- Fusarium* spp.
cutinase, 456
enniain production, 393
fusaric acid production, 4039
mycotoxins, 1642
T-2 toxin in wheat, 1880
- Fusarium subglutinans*
fusaproliferin production, 3378
- Fusion proteins**
overexpression by *Listeria* spp., 3057
- Fusobacterium necrophorum*
differentiation of subspecies, 469
- β -Galactosidase**
detection, 3868
- Galega orientalis*
competitiveness of rhizobia, 529
- Gamma irradiation**
S. typhimurium heat sensitivity, 1759
- Ganoderma lucidum* complex
differentiation and grouping, 1354
- Gardnerella vaginalis*
inhibition by lactobacilli, 1089
- Garlic**
microbial growth inhibition, 4238
- Gaseous disinfection**
C. parvum oocysts, 3908
- Gas-water interface**
bacterial enrichment, 2593
- gdhA*
glutamate dehydrogenase, 3826
- Gellan lyase**
purification, characterization, 1475
- Gene amplification**
PCR bias, 625
- Gene expression**
FAD2 in *S. cerevisiae*, 4309
isocitrate dehydrogenase from *T. aquaticus*, 4627
L. lactis, 3662
mnp1 in *A. oryzae*, 860
nif in *T. thiebautii*, 1073
P. aeruginosa lipase production, 3391
T. villosa laccase genes, 834
XYN2 in *S. cerevisiae*, 1036
xyxA in *S. cerevisiae*, 209
- Gene linkage**
fumonisins biosynthesis, 2571
- Gene transfer**
A. eutrophus plasmid pJP4, 2521
2,4-D degradation, 2457
influence of earthworms, 515
- Gene-based linkage map**
A. bisporus, 4542
- Genetic complementation**
capture of a *tdfA* homolog from soil, 2470
- Genetic diversity**
B. cepacia, 1558
Frankia spp., 979
marine algal viruses, 2869
R. meliloti, 2279
V. vulnificus, 3572
- Genetic exchange**
xenobiotic compound degraders, 3910
- Genetic heterogeneity**
C. parvum ribosomal repeat, 712
- Genetic profiles**
natural bacterial communities, 3112
- Genetic relationships**
X. fragariae strains, 3121
- Genetic structure**
B. cepacia, 1558
- Genetic transformation**
E. coli in freshwater, 3673
river epilithon, 2994
- Genetically engineered microorganisms**
alfalfa yield improvement, 4260
arabinose-fermenting *Z. mobilis*, 4465
B. thuringiensis, 4367
cadmium tolerant *E. coli*, 743
Cytophaga, *Flavobacterium*, *Flexibacter*, and *Sporocytophaga*, 3017
ecosystem-level effects, 6
ethanol production, 4594
mannose-catabolizing *Z. mobilis*, 4155
peptide overexpression and cell light scatter, 3042
population size prediction, 3413
survival monitoring, 3486
- Genomic typing**
B. solanacearum, 473
- Genomic variation**
aquatic birnaviruses, 2513
- Genotype**
individual bacteria, 1873
- Genotyping**
E. coli identification, 3350
heterotrophic bacteria, 1383
- Geobacter* spp.
diverse environments, 1531
- Geosmin**
S. citreus, 1295
- Giardia* cysts
detection in water, 1317
drinking water in Canada, 2789, 2798
- Giardia* spp.
detection in wastewater, 2081
drinking water contamination, 47
- Gibberella fujikuroi*
fumonisin biosynthesis, 2571
isozyme variation, 3750
mycotoxins, 1182
- Gill endosymbionts**
sulfur-oxidizing bacteria, 2324
- Gilt-head sea bream**
Vibrio adhesion, 3650
- Glucanolytic actinomycetes**
antagonism towards *Phytophthora* sp., 1630
- $\beta(1\rightarrow3)$ -Glucans**
measurement in the environment, 3176
- Glucose**
acid-tolerant EHEC, 4009
C. glutamicum growth, 429
fermentation by *S. cerevisiae*, 1705
metabolism by *P. stipitis*, 2832
metabolism by *S. cerevisiae*, 2832
repression of maltose metabolism, 4441
- T. reesei* xylanase secretion, 2859
- Glucose fermentation**
ancestral metabolic characteristic, 2657
- Glucose oxidase**
biocontrol of *V. dahliae*, 3183
- Glucose transport**
B. licheniformis, 732
T. neapolitana, 2915
- β -Glucosidase**
C. peltata, 3165
- β -D-Glucuronidase**
E. coli identification, 3350
- Glufosinate**
resistant *C. reinhardtii*, 3834
stereospecific production, 3794
- Glutamate decarboxylase**
E. coli identification, 3350
- Glutamate dehydrogenase**
P. ruminicola, 3826
- Glyceraldehyde-3-phosphate dehydrogenase**
ectomycorrhizal fungi, 3432
- Glycerol**
S. pombe growth, 4663
Glycerol-3-phosphate dehydrogenase
S. cerevisiae mutant, 3894
- Glycerol content of wine**
immobilized *C. stellata*, 128
- Glycerol fermentation**
3-HPA accumulation, 4405
inhibitory metabolites, 1448
- Glycerol trinitrate**
biodegradation, 637
- Glycosaminoglycan-degrading enzymes**
heparinases II and III, 2723
- gpd*
ectomycorrhizal fungi, 3432
- Grains**
aflatoxigenic molds, 3270
- Gram-negative bacteria**
mutagenesis, 3762
- Gram-positive bacteria**
cultivation from a hot spring, 3917
- Gram-positive, catalase-positive cocci**
enterotoxigenic potential, 1897
- Granular sludge**
propionate-oxidizing bacteria, 1656, 2163
- Graphium* spp.
growth inhibition, 2198
- Grass**
biodegradation, 1437
- Grass lignin**
degradation by *Pleurotus* spp., 1928
- Graywater treatment**
biomass recycle reactor, 3292
- Green fluorescent protein**
monitoring survival of GEMs, 3486
- Ground beef**
shiga-like toxin gene detection, 1347
- Groundwater**
A. hydrophila inactivation, 3277
- Growth**
A. pleuropneumoniae, 853
B. thermosphacta, 1029
bacterioplankton in lakes, 3251
nonproteolytic *C. botulinum*, 3069
Pectinatus spp., 1233
phototrophs, 237
rain and *P. syringae*, 2560
T. litoralis, 4478
- Growth efficiency**
marine bacterioplankton, 1991

- Growth inhibition
 ajoene from garlic, 4238
 diarrheagenic *E. coli*, 3196
Graphium spp., 2198
L. innocua, 1616
L. monocytogenes, 2006
P. mirabilis, 4284
 piscicocins VIa and VIb, 4410
S. aureus, 2006
- Growth rate
A. eutrophus, 147
L. innocua in broth, sausage, 1616
- Growth temperature
P. fluorescens, 3319
- Guest Commentary
 oligonucleotide probe database, 3557
- Gulf of Mexico
 phages and bacterial mortality, 4374
- gusA*
 marked *Rhizobium* strains, 4191
- Gypsy moth
B. thuringiensis CryIAC receptor, 2845
 synergistic effect of CryIA δ -endotoxins, 583
- H7 antigen of *E. coli*
 detection with MAbs, 3325
- Halogenated compounds
 reductive dehalogenation, 3800, 3809
- Halophila stipulacea*
 diversity of microorganisms, 766
- Halophiles
 pH and ammonia accumulation, 4486
 phylogeny, 3779
- Halotolerance
E. coli O157:H7, 1822
- Hansenula polymorpha*
 multiple plasmids, 1839
- Hardwood kraft pulp
 bleaching by *P. sordida*, 913
 bleaching by *T. versicolor*, 4417
- Hartmannella vermiformis*
L. pneumophila replication, 2022
- Heat shock
 activation in *E. coli*, 4003
- Heat tolerance
E. coli O157:H7, 1822
- Heat treatment
S. stanley killing, 2212
- Heavy metals
 cadmium-tolerant *E. coli*, 743
 cellular responses, 4044
 effects on reductive dechlorination, 2317
 effects on soil microbial communities, 420
 tolerance by soil bacteria, 2970
- hemA*
 5-aminolevulinate production, 3560
- Hemin
V. vulnificus biotype 2, 2806
- Hemoflavoenzymes
P. chrysosporium, 1329
- Hemoglobin
V. vulnificus biotype 2, 2806
- Hemolytic activity
L. monocytogenes, 4293
- Heparinase
 expression from *E. coli*, 2723
- hepB* and *hepC*
 expression in *E. coli*, 2723
- Herbicides
 biodegradation, 1842, 3587, 4318
 resistant *C. reinhardtii*, 3834
 stereospecific production, 3794
- Herpesvirus 2
 survival on skin, 4252
- Heteroduplex cross-hybridization products
Salmonella serovars, 2741
- Heterotrophic bacteria
 genotyping, 1383
 identification, 2122
- Heterotrophic nanoflagellates
 UV radiation and bacterivory, 4395
- High mountain lakes
 bacterial assemblage analysis, 2138
- High-cell-density fermentation
 RubisCO overproduction, 3502
- Highly repeated DNA sequences
S. castanea, 2443
- Hindgut of termites
 bacterial diversity, 461
 methanogens, 3620
 not-yet-cultured spirochetes, 347
- Histamine formation in cheese
 prevention, 1178
- Homoduplex rDNA spacer amplification
 products
Salmonella serovars, 2741
- Honeybees
 antibacterial peptides, 4652
- Host range
 broad-host-range frankiae, 3026
- Host range susceptibility
Enterococcus spp. infecting turbot, 607
- Host specificity
V. vulnificus biotype 2, 2331
- Hot spring microbial mat communities
 chemoorganotroph cultivation, 3917
 denaturing gradient gel electrophoresis
 profiles, 340, 3922
 photosynthate partitioning and fermentation, 4598
Synechococcus diversity, 1045
- Hudson River test tube microcosms
 PCB transformation, 3014
- Human colonic biota
 microbial competition, 3632
 rDNA sequence analysis, 2273
- Human cytokines
 export in *E. coli*, 55
- Human skin
 virus survival, 4252
- Hybridization
 biofilm structure and function, 4641
 membrane support evaluation, 300
 sulfate-reducing bacteria, 3605
 toluene-degrading *P. putida*, 4632
- Hybridization probes
 molecular microbial ecology studies, 4504
- D-Hydantoinase
 excitatory amino acid antagonist, 739
- Hydrochlorofluorocarbons
 biodegradation, 1818
- Hydrogen
 landfill fermentations, 1583
- Hydrogen peroxide production
 xenobiotic compound oxidation, 880
- Hydrogen sulfide
 production in nature, 2999
- Hydrogenation
 2,4-dinitrophenols, 784
- Hydrophobic compounds
ipb-lux reporter, 778
- Hydrophobicity
C. parvum, 1227
- Hydroxamate
A. pleuropneumoniae, 853
- 2-Hydroxy-3-naphthoic acid-2'-phenylanilide
 phosphate
 specific bacterial cell detection, 275
- 2-Hydroxy-6-oxo-6-phenylhexa-2,4-dienoic
 acid hydrolase
Pseudomonas sp., 262
- Hydroxyapatite
 DNA and rRNA extraction from sediment, 3905
- 4-Hydroxydecanoic acid
Sporidiobolus spp., 2826
- Hydroxyproline
 biosynthesis, 1903
- 3-Hydroxypropionaldehyde
 glycerol fermentation, 1448, 4405
- Hydroxyquinol 1,2-dioxygenase
 2,4,5-T metabolism, 4276
- 8-Hydroxyquinoline- β -D-galactoside
 β -galactosidase detection, 3868
- Hyperlignolytic fungi
 manganese peroxidase, 4066
- Hyperthermophiles
 ancestral metabolic characteristic, 2657
- Hyphomicrobium* spp.
 population diversity, structure, 522
- Hypochlorous acid
 heat shock and *saxRS* system activation, 4003
- Hypoxic environments
 catechol 2,3-dioxygenases, 1728
- Iberian ham
 enterotoxigenic cocci, 1897
- Ice-nucleating bacteria
 population size prediction, 3413
- Identification
A. hydrophila hybridization group 1, 1167
 activated sludge populations, 3901
 aquatic bacteria, 2183
 bacteria from a coculture, 4210
 commercial yeast strains, 4514
E. coli, 3350
 ectomycorrhizal fungi, 3432
 heterotrophic marine bacteria, 2122
L. monocytogenes, 4293
 numerically abundant culturable bacteria, 4433
Paracoccus sp. in biofilms, 4329
 root rot fungi, 4026
Salmonella serovars, 2741
T. indica, 87
V. proteolyticus, 2673
X. fragariae, 3121
- Imaging
 single colonies, 3339
- Immobilized keratinase
 feather degradation, 4273
- Immobilized microorganisms
C. stellata and winemaking, 128
 fumaric acid from *R. oryzae*, 2926
 glucose, xylose metabolism, 2832
P. stipitis, 2832
 porous nylon biocarrier, 4659
S. cerevisiae, 2832
- Immunoaffinity chromatography
 pyranose oxidase purification, 2586
- Immunochromatography
 mycotoxin in barley, 3858
- Immunodetection
 antigen-antibody complexes, 2356
- Immunological assays
 biomining microorganisms, 4243
 nisin A in foods, 2117

- Immunomagnetic-electrochemiluminescent detection
B. anthracis spores, 3474
E. coli O157:H7, 587
S. typhimurium, 587
- In situ hybridization
 bacterial assemblage analysis, 2138
- In situ spectroscopy
 single colonies, 3339
- Incubation temperature
 PCB dechlorination, 4174
- Indicator organisms
E. coli in water, 4032
 enterococci in recreational waters, 3881
- Individual bacteria
 phenotypic, genotypic traits, 1873
- Indole-3-acetic acid
 biosynthesis, 4121
- Indolepyruvate decarboxylase
 indole-3-acetic acid synthesis, 4121
- Indonesian soy mash
T. halophila, 1203
- Indoor climate assessment
 fungal index, 959
- Induction and repression kinetics
exA of *A. awamori*, 3646
- Infant feces
 probiotic bifidobacterium, 3668
- Infectious astroviruses
 detection in water, 1811
- Infectious enteroviruses
 detection, 1424
- Inhibition enzyme immunoassay
 $\beta(1\rightarrow3)$ -glucan measurement, 3176
- Insect cells
 PHB synthesis, 2540
- Insecticidal crystal proteins
B. thuringiensis, 80, 279, 564, 583, 1537, 1544, 2753, 2839, 2932, 3581, 3722, 4367
B. thuringiensis subsp. *aizawai*, 680
B. thuringiensis subsp. *israelensis*, 3140
 biotin receptors, 2932
- Insects
 antibacterial peptides, 4652
 biocontrol, 1369, 3453, 3581, 4367
 cuticle-degrading fungi, 1257
 entomopathogenic fungi, 2435
 insecticidal crystal protein, 80
luc and luciferase, 2356
 Lyme borreliosis, 4060
 midgut membrane proteins, 2753
 nontoxic *B. thuringiensis*, 1306
 pathogenic fungi, 907
 resistance to *B. thuringiensis*, 4168
 termite gut microflora, 347, 461, 2747, 3620
trpEG carried by symbiont, 332
 viral pesticides, 105
 yeastlike endosymbionts, 162
- Insertion elements
Synechocystis strain, 1964
- Insertion sequences
Lactococcus plasmids, 1112
R. leguminosarum, 685
- Integrated cell culture, T0
 enterovirus detection, 1424
- Integration elements
 bacteriophage LL-H, 1847
- Interface bioreactors
 citronellol esterification, 2216
- 16S-23S intergenic spacer regions
 phytoplasmal rRNA spacer primers, 2988
- Interlaboratory differences
 tuberculocidal testing, 2681
- Internal transcribed spacer sequences
Aspergillus Section *Flavi*, 2947
 biocontrol fungus *P. carduorum*, 3037
 DNA polymorphism in morels, 3541
G. lucidum isolate grouping, 1354
- Interspecies acetate transfer
 benzoate degradation, 26
- Intestinal microorganisms
B. distasonis, 1434
 bifidobacteria and lactobacilli, 4608
 cellular fatty acids, 3360
 mannose-specific adherence, 2244
 molecular analysis, 4608
 rDNA sequence analysis, 2273
 termites, 2747
- Intracellular pH
C. paradoxum, 4576
 determination, 178
- Intron splice site primers
 yeast strain differentiation, 4514
- invA*
 virulence of salmonellae, 3768
- Invertebrates
 bacteriolysis in deep-sea deposit feeders, 1051
- Ionophores
 ruminal bacterium adaptation, 4499
- ipb-lux* fusion
 reporter for hydrophobic compounds, 778
- Iron
 acquisition by *V. vulnificus*, 928
V. vulnificus biotype 2, 2806
- Iron-reducing bacteria
 aromatic compound degradation (letter), 3554
Geobacter spp. from sediment, 1531
 sludge deflocculation, 1487
- IS200 fingerprinting
S. abortusovis, 2375
- IS900
M. paratuberculosis detection, 3446
- IS8402
Synechocystis strain, 1964
- Isocitrate dehydrogenase
 purification and gene cloning, 4627
- Isoflavones
 zoospore chemotactic responses, 2811
- Isoleucine excretion
C. glutamicum, 3238
- L-Isoleucine
 production by *C. glutamicum*, 4345
- Isoimaric acid-degrading bacteria
 isolation and characterization, 3140
- Isopropylbenzene
 biodegradation, 3967, 4471
- Isopropylbenzene catabolism operon
 regulation in *P. putida*, 778
- Isopropylbenzene dioxygenase
 trichloroethene oxidation, 3967
- Isotopic exchange
 labeled-formate metabolism, 3535
- Isozyme variation
G. fujikuroi, 3750
- Ixodes persulcatus* in far eastern Russia
 Lyme disease spirochetes, 3887
- Ixodes ricinus*
 Lyme borreliosis, 4060
- Ixodes* spp.
 spirochetes, 2338
- Kanagawa, Japan
 urease-positive *V. parahaemolyticus*, 725
- Kanosamine
 production by *B. cereus*, 3061
- Kansas prairie soil
 carbon turnover and acetate, 494
- Karnal bunt of wheat fungus
 mtDNA for identification, 87
- katG::lux*
 biosensor for oxidative stress, 2252
- Kecap (Indonesian soy mash)
T. halophila, 1203
- Keratin degradation
F. pennavorans, 2875
- Keratinase
 feather degradation, 4273
- R(-)-Ketoprofen
 production from an amide compound, 152
- Kinetics
A. awamori mRNA and protein synthesis, 3646
 chlorinated ethene transformation, 3304
 3-chlorobenzoate transformation, 437
 dibenzothiophene desulfurization, 3066
 mixed-substrate growth, 1493
Pectinatus sp. growth, 1233
Vibrio adhesion to fish, 3650
- Kraft pulp
 bleaching by *P. sordida*, 913
- Labeled trehalose
 synthesis by *E. coli*, 3861
- Laccase
P. cinnabarinus, 1151
P. flavido-alba, 4263
 PAH oxidation, 4563
- Laccase genes
T. villosa, 834
- Laccase gene-specific sequences
 white rot and brown rot fungi, 3739
- Lactacin F
lafl as marker for lactobacilli, 4450
- Lactic acid bacteria
 acidocin J1132, 892
 bacteriocins, 1764, 4381
 bacteriophages, 1847
 carbohydrate utilization, 1922
 histamine formation in cheese, 1178
 survival of drying, 259
- Lactic acid fermentation
 cassava flour, 2854
- Lactic acid-containing polymers
 biodegradation, 2393
- Lactacin 481
 comparison with variacin, 1799
- Lactacin 3147
 cheddar cheese manufacture, 612
- Lactobacilli
 bacteriophages, 2111
G. vaginalis, 1089
 microflora of humans, 4608
 proteolytic system, 3220
 specific food-grade genetic marker, 4450
- Lactobacillus acidophilus*
 acidocin J1132, 892
- Lactobacillus delbrueckii*
 bacteriophage LL-H, 1847
- Lactobacillus plantarum*
 mannose-specific adherence, 2244
 pediocin AcH production, 4381
- Lactobacillus sake*
 carbohydrate utilization, 1922
 meat preservation, 2610

- Lactobacillus sanfrancisco*
proteolytic system, 3220
- Lactobacillus* spp.
E. faecalis adhesion, 1958
phages and bacteriocins in dairy foods, 2111
- Lactococci
abortive infection mechanisms, 3075
phage resistance mechanisms, 676, 3494
- Lactococcins
secretion mechanism, 1689
- Lactococcus lactis*
bacteriophage c2, 1452
cheddar cheese manufacture, 612
diacetyl metabolism, 2641
diacetyl overproduction, 2636
food-grade vectors, 1008
gene expression system, 3662
lactococcal secretion mechanism, 1689
proteolytic enzyme regulation, 156
- Lactococcus lactis* subsp. *cremoris*
abortive infection mechanism, 3075
bacteriophage resistance, 3494
- Lactococcus* spp.
insertion sequences in plasmids, 1112
lactose genes in plasmids, 1112
- Lactose genes
Lactococcus plasmids, 1112
- Lactose transport
L. lactis, 1574
- Lactose-positive *Pediococcus* spp.
milk fermentation, 936
- lafl*
Lactobacillus-specific marker, 4450
- Lake Constance, Germany
lake snow bacteria, 1998
- Lake Erie
planktonic microorganism diversity, 1913
- Lake snow
bacteria, 1998
- Lakes
actinomycete diversity, 249
bacterial assemblage analysis, 2138
bacterioplankton growth control, 3251
carbon dioxide uptake, 1803
- Laminations
microbial mats, 3985
- Landfills
hydrogen and fermentation, 1583
- Lantibiotics
engineering of modified residues, 385
Pep5, 385
- Large-subunit rRNA genes
A. catenella, 4199
- Laser diffractometry
B. sphaericus, 1699
- Leaf litter
anaerobic capacities, 4216
- Leaf and stem cell wall degradation
Neocallimastix sp., 1437
- Leavening ability
baker's yeast, 4401
- Leaves
bacterial infection monitoring, 1021
bacterial population size, 3413
epiphytic bacteria, 2978
P. syringae growth, 2560
- Lecithinase
L. monocytogenes, 1252
- Legionella pneumophila*
replication in protozoa, 2022
- Legionella* spp.
infection of *T. pyriformis*, 1081
potting mixes, 1081
- Leptinotarsa decemlineata*
biocontrol, 3453
- Lespedeza cuneata*
tannin degradation, 3600
- Letter to the Editor
aromatic compound degradation, 3554
- Lettuce
root colonization, 2767
- Leucine flux
L. lactis diacetyl production, 2636
- Leuconostoc gelidum*
meat preservation, 2610
- Leuconostoc lactis*
lactose transport, 1574
- Leuconostoc oenos*
citrate, sugar fermentation, 2577
malolactic enzyme genes, 1274
malolactic gene locus, 4493
- Ligand blots
B. thuringiensis proteins, 2753
- Light absorption
phototrophs, 620
- Light-scattering techniques
B. sphaericus spore structure, 1699
- Lignin
biodegradation, 1070, 1928
- Lignin enrichment culture
identification of abundant bacteria, 4433
- Lignin peroxidase
lip-like genes, 2660
- Ligninolytic fungi
C. subvernisporea, 3679
P. chrysosporium Burdall, 2477
P. cinnabarinus, 1151
P. laevis, 1597
- Lignin-polysaccharide complexes
formation in lignin degradation, 1928
- Ligninolytic fungi
manganese peroxidases, 4066
- Limiting factors
xenobiotic compound oxidation, 880
- Limnetic organic aggregates
bacteria, 1998
- lin*
distribution in corynebacteria, 1283
nucleotide sequence, 1283
- Linear alkylbenzenes
biodegradation, 749
- lip*
P. chrysosporium in soil, 3697
- Lipase H3 gene
amplification in *A. hydrophila*, 1167
- Lipase production
P. aeruginosa, 3391
- Lipid peroxidation
fluorene oxidation, 1788
- lip-like genes
white rot fungi, 2660
- Lipopolysaccharide
P. fluorescens, 100
S. typhimurium, 1
- Liquid chemical agents
sporicidal effects, 545
- Liquid impingement
airborne microorganisms, 2264
- Listeria innocua*
sodium lactate inhibition, 1616
- Listeria monocytogenes*
acid tolerance, 3128
acid tolerance response, 1693
antimicrobial peptides, 4529
cold stress proteins, 1116
detection in salmon, 822
- esterase electrophoresis, 1461
hemolytic activity, 4293
lecithinase, 1252
luciferase reporter bacteriophage, 1133
metabolism in defined medium, 304
molecular typing, 705
nisin inhibition, 2006
nisin-membrane interaction, 323
osmolytes and adaptation, 3088
protamine effect, 1058
- Listeria* spp.
bacteriophage lysin genes, 3057
differentiation, 1252
erythromycin resistance, 269
expression of fusion proteins, 3057
ribotyping from meat, poultry, 1781
- LlaBI*
lactococcal R/M system, 3494
- LL-H
defective site-specific integration elements, 1847
- Lotus corniculatus*
nonsymbiotic rhizobia, 2818
- Luciferase
expression in *S. aureus*, 2356
luxAB characterization, 2013
- Luciferase reporter bacteriophage
detection of *Listeria* cells, 1133
- lux*
L. monocytogenes detection, 1133
- luxAB*
bacterial luciferase mechanism, 2013
- Lymantria dispar*
B. thuringiensis CryIAC receptor, 2845
synergistic effect of CryIA δ -endotoxins, 583
- Lyme borreliosis
molecular marker, 4060
- Lyme disease spirochetes
far eastern Russia, 3887
- Lysis
F. succinogenes, 1342
streptococci, 4536
- Lysozyme
significance in coastal waters, 4374
- Lysostaphin-like bacteriolytic agents
zoocin A, 4536
- Maize
root colonization, 2767
- Malate permease
gene cloning, characterization, 1274
- Maleylacetate reductase
2,4,5-T metabolism, 4276
- Malic enzymes
S. bovis, 2692
- Malolactic fermentation
L. oenos, 1274, 4493
- Maltose metabolism
disruption in *S. cerevisiae*, 4441
- Malt-yeast extract-sucrose agar
isolation of fungi from silage, 3614
- Manduca sexta*
entomopathogenic fungi, 907
- Manganese
atrazine transformation, 3587
fungal ligninolysis, 3679
lignin degradation, 1070
- Manganese peroxidase
fluorene oxidation, 1788
gene expression in *A. oryzae*, 860
hyperlignolytic fungus IZU-154, 4066
kraft pulp bleaching, 913

- P. chrysosporium*, 2381
 Manitoba barley
 mycotoxins, 3858
 Mannanase
S. lividans, 4656
 Mannose utilization
Z. mobilis, 4155
 Mannose-specific adherence mechanism
L. plantarum, 2244
 Mariager Fjord, Denmark
 bacterial distribution, 1391, 1405
 Marine bacteria
 antibacterial protein, 2783
 aromatic hydrocarbon degradation, 2169, 3344
 capsular morphology, 4521
 chemostat culture, 1593
 clusters in seawater enrichments, 3716
 DMSP demethylation, 3978
 flow cytometric analysis, 1649
 generalized recombination defect, 3727
 genotyping, 1383
 high nitrate concentrations, 954
 identification, 2122
 laminations in microbial mats, 3985
 nitrogenase gene expression, 1073
 North Sea oil field waters, 1793
 phylogenetic analysis, 4049
 stress responses, 1287
 thermophilic sulfate reducers, 1793
V. anguillarum, 3727
 Marine environment
 algal virus genetic diversity, 2869
 bacterioplankton molecular phylogeny, 1171
 enumeration of viable bacteria, 174
 impact of a GEM, 6
 phages and bacterial mortality, 4374
 sulfate reduction, 408
Thioploca spp., 1855, 1863
 viruses, 1991
 Marker exchange
V. anguillarum *recA* mutant, 3727
 Markers
Lactobacillus spp., 4450
 Lyme borreliosis, 4060
M. maripaludis, 4233
Rhizobium strains, 4191
Z. mobilis, 4155
 Meat
 enterotoxigenic cocci, 1897
Listeria spp., 1781
 preservation, 2610
 Mecoprop
 biodegradation, 4318
 Media
A. hydrophila, 3544
 acholeplasmas and mycoplasmas, 3101
E. coli, 4032
E. ictaluri, 848
 fecal streptococci, 2177
 fungi from silage, 3614
L. monocytogenes metabolism, 304
 malt-yeast extract-sucrose agar, 3614
T. litoralis, 4478
V. harveyi, 3548
V. proteolyticus, 2673
 Medicago sativa
R. meliloti diversity, 2279
 Medieval wall paintings
 biodegradation, 2059
 Mediterranean waters
Synechococcus cell cycle, 2527
 Melanin biosynthesis gene
 cloning and analysis, 4340
 Membrane filter enumeration
 drinking water testing, 203
 Membrane supports
 quantitative hybridizations, 300
 Membranes
 atrazine effects, 2644
 copper toxicity, 3960
 insect resistance to Cry1Ac, 4168
 interaction with nisin, 323
 M-Enterococcus medium
 fecal bacterium confirmation, 2177
 mer genes
 association with transposition genes, 2961
 Metabolic efficiency and turnover
 soil microbial communities, 2411
 Metabolic engineering
 PHB synthesis, 2540
 Metabolic fluxes
 riboflavin-producing *B. subtilis*, 3687
 Metabolic pathway
 arabinose-fermenting *Z. mobilis*, 4465
 cyclic imide transformation, 3814
 endosulfan degradation, 593
 poly(3HB-co-3HV) in *N. corallina*, 372
 Metabolism
 2,4,5-T, 4276
 L-alanine from glucose, 2657
 atropine, 3245
 coupling with bioconversion, 2216
 diacetyl, by *L. lactis*, 2641
 glucose and xylose, 2832
 isotope-labeled formate, 3535
L. monocytogenes, 304
 maltose, 4441
 nitrodiphenylamines, 1710
 PAHs, 2547
 peroxisomal fatty acids, 3864
 PHB in bacteroids, 4186
 phenanthrene, 2547
 respiratory toxins, 3885
 styrene, 3594
 sucrose, 3878
 tropine, 3245
 Metabolites
 controlled production, 3662
 glycerol fermentation, 1448, 4405
 ochratoxins, 648
P. mirabilis inhibition, 4284
 PAH metabolism, 2547
 toluene degradation, 974
 Metal cations
M. flos-aquae capsule, 1208
 Metarhizium anisopliae
 chitinases, 907
 trypsin, 1257
 Metarhizium flavoviride
 chitinases, 907
 Methane-oxidizing bacteria
 chlorinated aliphatic hydrocarbon degradation, 3371
 Methanobrevibacter curvatus sp. nov.
 termite gut methanogen, 3620
 Methanobrevibacter cuticularis sp. nov.
 termite gut methanogen, 3620
 Methanococcus maripaludis
 neomycin resistance, 4233
 Methanococcus thermolithotrophicus
 North Sea oil field reservoirs, 728
 Methanogenesis
 landfills, 1583
 Methanogens
 anaerobic biofilms, 3847
 copper mining soil, 2629
 isotopic exchange, 3535
 labeled-formate metabolism, 3535
 North Sea oil field reservoirs, 728
 pH and ammonia accumulation, 4486
 phenol transformation, 809
 termite hindgut, 3620
 transformation of methylfurfural compounds, 3483
 Methanogen-specific DNA
 blanket bog peat, 668
 Methanotrophic activity
 response to water stress, 3203
 wetlands, 4548
 Methidiazine
 biotransformation, 798
 Methionine
 veratryl alcohol synthesis, 3366
 Methyl donors
 veratryl alcohol synthesis, 3366
 Methylfurfural compounds
 transformation to furfural, 3483
 Methylosinus trichosporium
 chlorinated ethene transformation, 3304
 TCE degradation, 1124
 Methylophilic Hyphomicrobium spp.
 population diversity, structure, 522
 Methylophilus
 restriction-modification systems, 1107
 4-Methylquinoline
 biodegradation, 2910
 Methyl-substituted aromatic compounds
 oxidation, 507
 O-Methyltransferase
 aflatoxin biosynthesis, 4296
 MI agar method
 drinking water testing, 203
 Microalgae
 semicontinuous culture, 266
 Microbial competition
 human colonic ecosystem, 3632
 Microbial ecology
 SSU rRNA hybridization probes, 4504
 Microbial gellan lyase
 purification, characterization, 1475
 Microbial mats
 chemoorganotroph cultivation, 3917
 denaturing gradient gel electrophoresis
 profiles, 340, 3922
 microlaminations, 3985
 photosynthate partitioning and fermentation, 4598
Synechococcus diversity, 1045
 Micrococcus luteus
 quantitative analysis, 1311
 Micrococcus varians
 new bacteriocin, 1799
 Microcoleus chthonoplastes
 fermentation, 1752
 phylogeny, biogeography, 3284
 sulfur reduction, 1752
 Microcosm studies
 phylloplane bacteria, 3413
 Microcystin LR
 biodegradation, 4086
 Microcystis flos-aquae
 metal ion effect on capsule, 1208
 Microelectrodes
 biofilm structure and function, 4641
 Microsensors
 nitrate, 1248

- MIGI**
disruption in *S. cerevisiae*, 4441
- Milk**
Bacillus spp., 4229
bovine immunodeficiency virus, 4280
C. parvum detection, 3259
C. parvum and pasteurization, 2866
detection of *Brucella* spp., 1683
M. paratuberculosis detection, 3446
M. tuberculosis inactivation, 631
- Milk fermentation**
L. monocytogenes survival, 3128
Lac⁺ *Pedococcus* spp., 936
- Mineralization**
chloroaromatic compounds, 1159
chloroform, 2716
pentachlorophenol, 4361
polycyclic aromatic hydrocarbons, 292
pyrene, 2311
- Minimum substrate concentration**
measurement and prediction, 3655
- Minireviews**
acetoin and wine fermentation, 309
- Mitochondrial DNA**
T. indica, 87
- Mixed-culture bioprocesses**
1,2-dibromoethane degradation, 4675
direct 5S rRNA assay, 1969
- mle**
malolactic fermentation, 4493
- mnp**
P. chrysosporium, 2381
- mnp1**
expression in *A. oryzae*, 860
- Modeling**
B. thermosphacta thermal inactivation, 1029
L. innocua growth, 1616
microbial competition, 3632
Pectinatus sp. growth, fermentation products, 1233
- Molecular analysis**
bifidobacteria and lactobacilli, 4608
S. typhi, 271
- Molecular genetic relationships**
salmonellae, 804
- Molecular identification**
bacteria from a coculture, 4210
- Molecular microbial diversity**
agricultural soil, 1935
 β -subgroup ammonia oxidizers, 4147
- Molecular polymorphism distribution**
wine yeast strains, 1944
- Molecular typing**
L. monocytogenes, 705
- Moniliformin**
F. moniliforme, 1182
G. fujikuroi, 1182
- Monoclonal antibodies**
enumeration of fecal flora, 735
H7 antigen of *E. coli*, 3325
Nitrobacter spp., 2352
S. typhimurium LPS, 1
Salmonella detection in food, 2294
toluene dioxygenase purification, 2133
- Morchella** spp.
DNA polymorphism, 3541
- Morels**
DNA polymorphism, 3541
- Mosaic neurotoxin gene**
cloning and PCR detection, 662
- Mosquitocidal toxins**
B. sphaericus, 2174
B. thuringiensis subsp. *israelensis*, 3140
- mRNA synthesis**
kinetics in *A. awamori*, 3646
- Mucus**
Vibrio adhesion, 3650
- Mushrooms**
gene assignment to chromosomes, 4542
- Mycobacterium chlorophenolicum**
detection in soil, 1478
PCP mineralization, 4361
- Mycobacterium paratuberculosis**
detection in milk, 3446
- Mycobacterium** spp.
PAH degradation, 13
pyrene mineralization, 2311
- Mycobacterium tuberculosis**
inactivation in milk, 631
- Mycoplasma** contamination of cells
detection by PCR, 328
- Mycoplasma** spp.
nisin sensitivity, 3101
- Mycorrhizal fungi**
endosymbionts, 3005
- Mycotoxins**
1992 Wisconsin corn crop, 1642
Aspergillus spp., 4461
detection in wheat, 1880
3,15-diacetyldeoxynivalenol, 3858
F. moniliforme, 1182
F. subglutinans, 3378
fusaproliferin, 3378
G. fujikuroi, 1182
Manitoba barley, 3858
- Nanoflagellates**
UV radiation and bacterivory, 4395
- Naphthalene**
bacterial growth, 2286
- Naphthalene 1,2-dioxygenase**
aromatic compound oxidation, 507
- Naphthalene dioxygenase**
stereospecific oxidations, 3355, 4073
toluene and ethylbenzene oxidation, 3101
- Naphthoenaromatic compounds**
oxidation, 507
- Navel orange leaves**
epiphytic bacteria, 2978
- Navy ships**
wastewater treatment, 3292
- Necrotizing hepatopancreatitis of shrimp**
etiologic agent, 3439
- Neocallimastix frontalis**
attachment to cellulose, 4666
- Neocallimastix patriciarum**
cellulase A, 1889
- Neocallimastix** spp.
leaf, stem cell wall degradation, 1437
- Neomycin resistance**
M. maripaludis, 4233
- Nepeta** spp.
antifungal agents, 702
- Nested multiplex PCR**
identification of root rot fungi, 4026
- Nested PCR**
C. parvum and *Giardia* detection, 2081
detection of yeasts in sherry, 998
- Neurotoxin-producing Clostridium** spp.
gene cloning and detection, 662
- Neutralizers for contact lenses**
toxicity for *A. castellanii*, 3521
- nif**
expression in *T. thiebautii*, 1073
- Nisin**
dehydroalanine-5 role, 2966
E. coli O₂ consumption, 1831
interaction with *L. monocytogenes*, 323
L. lactis gene expression, 3662
L. monocytogenes inhibition, 2006
polyclonal antibodies, 2117
S. aureus inhibition, 2006
S. aureus O₂ consumption, 1831
- Nisin sensitivity**
acholeplasmas and mycoplasmas, 3101
- Nitrate**
high concentrations in *Beggiatoa* spp., 954
microsensor, 1248
- Nitrifying bacteria**
adaptation to anoxic habitats, 4100
aquarium biofilters, 2888
phylogenetic probes, 2156
- Nitrifying biofilms**
structure and function, 4641
- Nitrotriacetate**
degradation dynamics, 133
- Nitrite**
accumulation by *P. stutzeri*, 2615
- Nitrite oxidoreductases**
Nitrobacter spp., 2352
- Nitrite reductase locus**
R. "hedysari" HCN1T1, 4019
- Nitrobacter** spp.
immunological detection, 2352
- Nitrodiphenylamines**
anaerobic metabolism, 1710
- Nitrogen**
removal from wastewater, 4224
S. cerevisiae anaerobic growth, 3187
- Nitrogen fixation**
A. brasilense and bean roots, 3030
Frankia spp., 979, 2904, 3026
R. meliloti, 3991
Sym plasmid distribution, 4202
territe symbionts, 2747
tracer assay, 986
- Nitrogen source**
effect on *gdhA* expression, 3826
glufosinate and *C. reinhardtii*, 3834
- Nitrogen transformations**
wetland soil cores, 2345
- Nitrogenase gene**
expression in *T. thiebautii*, 1073
- Nitropropanol-metabolizing bacteria**
isolation from the rumen, 3885
- Nitrosomonas europaea**
N₂ removal from wastewater, 4224
- Nitrous oxide**
production by *A. faecalis*, 2421
- Nocardia corallina**
poly(3HB-co-3HV) pathway, 372
- nod** gene inducers
A. brasilense-inoculated bean roots, 3030
- Nodulation**
A. brasilense and bean roots, 3030
actinomycetes and *C. equisetifolia*, 3034
competitiveness of rhizobia, 529
protein synthesis by bacteroids, 3757
- Nonaflatoxigenic A. parasiticus**
characterization, 3399
- Nonculturable bacteria**
phenotypic, genotypic traits, 1873
- Nonphenolic lignin structures**
manganese-dependent ligninolysis, 3679

- Nonproteolytic *C. botulinum*
growth in pureed vegetables, 3069
- Nonsymbiotic rhizobia
four unnamed species, 2818
- Nontoxic *B. thuringiensis* strains
characterization, 1306
- norA*
A. parasiticus dehydrogenase, 360
- North Sea oil field reservoirs
M. thermolithotrophicus, 728
thermophilic sulfate reducers, 1793
- Norwalk virus
detection in shellfish, 254
- n*-Pentanol
poly(3-hydroxyvalerate) production, 380
- Nuclear magnetic resonance
citrate, sugar fermentation, 2577
tannin degradation, 3600
yeast glucose metabolism, 2832
- Nuclear power production
microbial technetium reduction, 578
- Nucleic acid amplification
enteric virus detection, 3772
- Nucleic acid dyes
flow cytometry of marine bacteria, 1649
- Nucleotide sequence
acetate kinase genes, 2758
cumene degradation genes, 4471
lin from *B. linens*, 1283
nerve agent-decontaminating enzyme
gene, 1636
phosphotransacetylase genes, 2758
T. aquaticus isocitrate dehydrogenase
gene, 4627
T. fusca protease gene, 4256
- Numerically abundant culturable bacteria
identification, 4433
- Nutrient availability
Sphingomonas sp. response, 1287
- Nutrient limitation
styrene degradation, 3594
- Nutrient turnover
marine bacterioplankton, 1991
meromictic lakes, 3251
- Nutritional assays
Everglades microflora, 486
P. putida toluene degradation, 601
- O serogroups
P. syringae, 2360
- Obligately intracellular bacteria
mycorrhizal fungi, 3005
- Ochratoxins
metabolites, 648
production by *Aspergillus* spp., 4461
- Ochrobactrum anthropi*
atrazine effects, 2644
- Ochromonas danica*
phenol degradation, 1265
- Off-flavor compounds
geosmin, 1295
- Offshore suspension relaying
reduction of *V. vulnificus* levels in oysters,
3875
- Oil field microbial communities
sulfate-reducing bacteria, 1623, 3551, 3605
- Oil field waters
thermophilic sulfate reducers, 1793
- Oligo-1,6-glucosidase
B. coagulans, 2066
- Oligobacteria
aromatic hydrocarbon degradation, 2169
- Oligonucleotide probes
A. pullulans, 1514
C. parvum detection in milk, 3259
database, 3557
enteric viruses in oysters, 2074
propionate-oxidizing bacteria, 1656
protists, 1416
- Oligotrophic bacteria
chemostat culture, 1593
- Oncorhynchus mykiss*, Walbaum
R. salmoninarum detection, 3929
- Oocysts
detection in water, 3385
gaseous disinfection, 3908
pasteurization effect, 2866
temperature and viability, 1431
viability and infectivity, 3227
- opaA*
nerve agent-decontaminating enzyme, 1636
- OprF antibody
probe for fluorescent pseudomonads, 480
- Oral bacteria
fimbriin expression, 3933
- Organic wastes
biodegradation, 3292
- Organophosphorus nerve agents
decontamination, 1636
- Origin of DNA replication
bacteriophage ϕ 2, 1452
- Osmolytes
accumulation in *L. monocytogenes*, 3088
- Osmotic stress
L. monocytogenes, 3088
lactic acid bacteria, 259
- Outer membrane proteins
fluorescent pseudomonads, 480
- Oxalate
anabolic incorporation by *O. formigenes*,
3011
- Oxalate-degrading bacteria
O. formigenes energetics, 2494
- Oxalobacter formigenes*
oxalate anabolic incorporation, 3011
proton motive force generation, 2494
- Oxidation
acetate, 4108
anthracene, 3697, 4563
atrazine transformation, 3587
benzene, 288
benzo[a]pyrene, 4563
6,7-dihydro-5H-benzocycloheptene, 1364
1,2-dihydronaphthalene, 4388
ethylbenzene, 3101
ferrous iron, 1458
polycyclic aromatic hydrocarbons, 1099,
4563
toluene, 3101
trichloroethylene, 3227, 3967
xenobiotic compounds, 880
- Oxidative modification
cephalosporin C acylase, 2919
- Oxidative stress
biosensor, 2252
- Oxygen
3-chlorobenzoate degradation, 2427
consumption by *E. coli*, 1831
consumption by *S. aureus*, 1831
cyanide oxidation, 2195
- Oxygen-limited environments
catechol 2,3-dioxygenases, 1728
- Oysters
enteric virus detection, 2074, 3772
small round-structured virus, 4268
- V. vulnificus* detection, 1378
V. vulnificus reduction, 3875
- P*
E. coli O157, 791
- Paracoccus denitrificans*
 N_2 removal from wastewater, 4224
poly(3-hydroxyvalerate) production, 380
- Paracoccus* spp.
biofilms, 4329
- Pasteurization
C. parvum oocysts, 2866
- Pathogens
A. castellanii, 3521
A. hydrophila, 1167, 3459, 3544
aquatic birnaviruses, 2513
B. anthracis, 3474
Borrelia spp. in Russia, 3887
bovine immunodeficiency virus, 4280
Brucella spp. in milk, 1683
C. jejuni, 4614
C. parvum, 643, 1227, 2866, 3227, 3259,
3385, 3908
Cryptosporidium oocysts, 1317
dental unit water lines, 3954
diarrheagenic *E. coli*, 3196
E. coli, 3462, 4621
E. coli O157, 791
E. coli O157:H7, 587, 1519, 2567, 2735
E. faecalis adhesion, 1958
enteric viruses, 3772
enterohemorrhagic *E. coli*, 3094, 3466
food, 4229
G. vaginalis, 1089
Giardia cysts, 1317
inactivation in milk, 631
infectious enteroviruses, 1424
irradiation and heat sensitivity, 1759
L. monocytogenes, 705, 822, 1133, 1461,
1693, 3088, 3128, 4293, 4529
Legionella spp., 1081
Listeria spp., 1252
M. paratuberculosis, 3446
M. tuberculosis, 631
P. gingivalis, 3933
P. mirabilis, 4284
S. stanley, 2212
S. typhimurium, 587, 4303
Salmonella spp. in food, 2294
salmonellae, 3768
seawater and sunlight effects, 4621
shiga-like toxin-producing *E. coli*, 1347
shrimp, 3439
survival on skin, 4252
V. anguillarum, 3727
V. harveyi, 3548
V. mimicus, 1141, 3871
V. parahaemolyticus, 725, 3516
V. vulnificus, 717, 1378, 3572, 3875
V. vulnificus biotype 2, 1454
verocytotoxinigenic *E. coli*, 4314
Vibrio spp., 3650
viruses in oysters, 4268
- pCI750
phage abortive infection mechanisms, 3075
- PCR
A. hydrophila hybridization group 1, 1167
aflatoxinigenic mold detection, 3270
amplification inhibition relief, 1102
anaerobes in feces, 1242
Aspergillus Section *Flavi*, 2947
bias in 16S rRNA gene amplification, 625
broad-host-range plasmids, 2621

- Brucella* spp. in milk, 1683
C. parvum detection in milk, 3259
C. parvum DNA detection, 643
C. parvum and *Giardia* detection, 2081
 commercial yeast strains, 4514
 competitiveness of rhizobia, 529
 detection of *Salmonella* spp., 4303
E. chrysanthemi characterization, 2228
 ectomycorrhizal fungi, 3432
 enteric viruses in oysters, 2074
fimA amplification, 4303
Frankia genetic diversity, 979
L. monocytogenes detection, 822
 laccase gene sequences from wood rot fungi, 3739
M. chlorophenolicum in soil, 1478
M. paratuberculosis detection, 3446
 methanogen-specific DNA, 668
 mosaic neurotoxin gene, 662
Mycoplasma contamination of cells, 328
 natural bacterial communities, 3112
 Norwalk virus in shellfish, 254
R. salmoninarum detection, 3929
 shiga-like toxin gene detection, 1347
 typing of rhizobia, 2029
V. vulnificus detection, 1378
 verocytotoxinogenic *E. coli*, 4314
- PCR product patterns
Salmonella serovars, 2741
- PCR-RFLP
 cry-type gene identification, 1369
 single-spore flexible *Frankia* sp., 3026
- Pectinatus* spp.
 growth and fermentation products, 1233
- Pectinolytic isozyme polymorphism
E. chrysanthemi, 2228
- Pediocin AcH
 production by *L. plantarum*, 4381
- Pediocin-like bacteriocins
 construction, 3313
- Pediococcus* spp.
 milk fermentation, 936
- pel*
E. chrysanthemi characterization, 2228
- Pelagic environment
 enumeration of viable bacteria, 174
- Pemaeus vannamei*
 necrotizing pancreatitis, 3439
- Penicillium capsulatum*
 arabinofuranosidases, 168
- Pentachlorophenol
 mineralization in soil, 4361
 polymerization by fungi, 3890
- Pentaerythritol
 biodegradation, 637
- Pentaerythritol tetranitrate
 biodegradation, 1214
- Pep5
 engineering of modified residues, 385
- Peptide synthesis
S. viridochromogenes, 570
- Periodontal disease
 vaccine development, 3933
- Peroxidases
 actinomycetes, 2186
 xenobiotic compound oxidation, 880
- Peroxisomal fatty acids
 metabolism by *P. guilliermondii*, 3864
- Pesticide-degrading cytochrome P-450
Rhodococcus thcB gene, 403
- Pesticides
 biodegradation, 593
- pet* operon plasmids
 ethanol production, 4594
- pH
C. botulinum spore growth, 2664
E. coli O157:H7 survival, 2735
 effect on nisin inhibition, 2006
 influence on halophilic, methylotrophic methanogens, 4486
L. innocua growth, 1616
Pectinatus sp. growth, 1233
 polyol, trehalose in conidia, 2435
- Phaeodactylum tricornutum*
 semicontinuous culture, 266
- Phagosomes
L. pneumophila replication, 2022
- Phanerochaete chrysosporium*
 bioremediation of PAH-contaminated soil, 2381
 cellobiose dehydrogenase cDNA sequence, 1329
 endosulfan degradation, 593
 fluorene oxidation, 1788
lip expression in soil, 3697
lip-like genes, 2660
mnp1 expression in *A. oryzae*, 860
mnp expression in soil, 2381
 omnipresent bacteria, 2477
 veratryl alcohol synthesis, 3366
- Phanerochaete flavidobalba*
 laccase, 4263
- Phanerochaete laevis*
 PAH oxidation, 1597
- Phanerochaete sordida*
 kraft pulp bleaching, 913
 polychlorinated dibenzofuran degradation, 4323
 polychlorinated dibenzo-*p*-dioxin degradation, 4323
- Phaseolus vulgaris*
 nodulation by *A. brasilense*, 3030
- Phenanthrene
 biodegradation, 2387
 metabolism by *P. ostreatus*, 2547
- Phenanthrene-degrading bacteria
 phenotypic and genotypic study, 3818
- Phenol
 biodegradation, 1265
 transformation into phenylalanine, 809
- Phenol feeding pattern
 effect on TCE cometabolism, 2953
- Phenol hydroxylase
A. eutrophus, 3227
- Phenothiazines
 biotransformation, 798
- Phenotype
C. testosteroni, 2687
E. coli identification, 3350
 fluorescent pseudomonads, 3818
 individual bacteria, 1873
V. vulnificus biotype 2, 918
- 11-Phenoxyundecanoic acid
 novel aromatic copolyester production, 536
- Phenylalanine
 phenol transformation, 809
- Z- and E-Phenylitaconic acids
 toluene degradation, 974
- Phlebiopsis gigantea*
 pyranose oxidase, 2586
- Phormium* yellow leaf phytoplasma
 16S rRNA gene sequence heterogeneity, 3133
- Phosphatidylcholine phospholipase C
L. monocytogenes, 1252
- Phosphatidylethanolamine
 production by *P. fluorescens*, 2778
- Phosphinothricin
 resistant *C. reinhardtii*, 3834
 stereospecific production, 3794
- Phosphinothricin tripeptide
 biosynthesis, 570
- Phosphoenolpyruvate carboxylase
 overexpression by *E. coli*, 1808
- Phospholipid fatty acids
 heavy metal-polluted soil microbial communities, 420
- Phosphorus
 effect on *Synechococcus* spp., 2527
- Phosphorylase
P. ruminicola, 1770
- Phosphotransacetylase
C. acetobutylicum, 2758
- Photinus pyralis*
luc and luciferase, 2356
- Photobioreactors
 photic volume, 1570
- Photodissimilation
 fructose, by *A. variabilis*, 1220
- Photoinactivation
 yeast cells, 1977
- Photosynthate partitioning
 hot spring microbial mats, 4598
- Photosynthetic bacteria
 tellurite resistance, 4195
- Phototrophic microorganisms
 growth in a redox-controlled sulfidostat, 3640
 growth measurement, 237
 light absorption, 620
 photic volume in photobioreactors, 1570
- phsA*
 phosphinothricin tripeptide biosynthesis, 570
- Phycobilisome synthesis
Synechocystis strain, 1964
- Phylloplane
 bacterial population size, 3413
- Phylogenetic diversity
 termite intestinal bacteria, 461
- Phylogenetic probes
 nitrifying bacteria, 2156
- Phylogeny
 bacteria in marine sediment, 4049
 bacterioplankton, 1171
Cristispira spp., 942
 Dead Sea halophiles, 3779
M. chthonoplastes, 3284
 necrotizing hepatopancreatitis of shrimp, 3439
 PAH-degrading bacteria, 3344
 yeastlike endosymbionts, 162
- Physiology
 riboflavin-producing *B. subtilis*, 3687
- Phytopathogens
 antagonistic actinomycetes, 1630
 azole resistance, 184
B. solanacearum, 473
 biocontrol, 3489
 bioluminescence monitoring, 1021
C. carbonum, 4129
C. gloeosporioides, 1014
C. lagenarium, 4340
C. michiganensis subsp. *sepedonicus*, 1500
C. parasitica, 1984
 chestnut blight fungus, 1984
 damping-off, 1550, 4081
 ennatin production, 393

- Fusarium* spp., 4039
 karnal bunt of wheat, 87
P. fragariae var. *rubi*, 1630
P. splendens, 865
P. syringae serogroups, 2360
Phormium yellow leaf phytoplasma, 3133
 raspberry root rot, 1630
 root rot in seedlings, 4026
 rRNA spacer primers, 2988
S. sclerotiorum, 4247
Streptomyces spp., 3489
T. indica, 87
V. dahliae, 3183
X. fragariae, 3121
Phytophthora fragariae var. *rubi*
 antagonistic actinomycetes, 1630
Phytophthora sojae
 chemotactic responses, 2811
 Phytoplankton
 phosphorus effect, 2527
 red tides, 4199
 Phytoplasm
 16S rRNA gene sequence heterogeneity, 3133
 rRNA spacer primers, 2988
Pichia guilliermondii
 peroxisomal fatty acid metabolism, 3864
Pichia stipitis
 glucose, xylose metabolism, 2832
 PicoGreen
 flow cytometry of marine bacteria, 1649
Piromyces spp.
 cellulolytic enzyme complex, 20
 Piscicocins
 purification, amino acid sequences, 4410
 Piscicolin 126
 characterization, 2897
 Pistachios
 aflatoxins, 1197
 Plankton-associated *Vibrio cholerae*
 removal from water, 2508
 Planktonic bacteria
 diversity in Lake Erie, 1913
 Plant tissue
 fungi and ergosterol, 415
 methanotrophy, 4548
 Plant yield
 competitiveness of rhizobia, 529
 Plantaricin C
 mode of action, 2701
 Plant-associated methanotrophy
 in situ analyses, 4548
 Plasmid transfer
 R. meliloti, 1145
 Plasmids
 A. eutrophus gene transfer, 2521
 B. thuringiensis subsp. *israelensis*, 3140
 2,4-D degradation genes, 2470
 detection by PCR, 2621
 DNA isolation, 3527
 E. faecium, 1481
 ethanol production, 4594
 H. polymorpha, 1839
 lactococci, 676
 Lactococcus spp., 1112
 phage abortive infection mechanisms, 3075
 phage resistance mechanisms, 676
 S. aureus, 3527
 stability in *P. fluorescens*, 1076
 viridans group streptococci, 3527
 Plasmolysis
 bacterial viability indicator, 3939
Pleurotus ostreatus
 PAH metabolism, 292, 2547
 phenanthrene metabolism, 2547
Pleurotus pulmonarius
 atrazine transformation, 3587
 lignin degradation, 1070
Pleurotus spp.
 grass lignin degradation, 1928
Plodia interpunctella
 resistance to *B. thuringiensis*, 4168
Plutella xylostella
 B. thuringiensis toxicity, 564, 2839
pmi
 selective marker for *Z. mobilis*, 4155
 pNP40
 phage DNA penetration, 676
 Pollutants
 ipb-lux reporter, 778
 PAH oxidation, 4563
 PCP mineralization in soil, 4361
 Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)
 pathway in *N. corallina*, 372
 Poly(3-hydroxyvalerate)
 production by *P. denitrificans*, 380
 Poly(3-hydroxyalkanoic acid) copolymer
 biosynthesis from CO₂, 1004
 Poly(lactic acid)
 biodegradation, 2393
 Polycaprolactone depolymerase
 Fusarium spp., 456
 Polychaete annelids
 bacteriolytic kinetics, 1051
 Polychlorinated biphenyls
 biodegradation, 2053, 2710, 4174
 dechlorination, 2534
 transformation, 3014
 Polychlorinated dibenzofurans
 biodegradation, 4323
 Polychlorinated dibenzo-*p*-dioxins
 biodegradation, 4323
 dechlorination, 4556
 Polyclonal antibodies
 nisin, 2117
 Polycyclic aromatic hydrocarbons
 biodegradation, 13, 230, 3344
 bioremediation of soil, 2381
 metabolism by *P. ostreatus*, 2547
 mineralization, 292, 3697
 oxidation by *P. laevis*, 1597
 oxidation by *T. versicolor*, 4563
 oxidation under sulfate-reducing conditions, 1099
 Pseudomonas biosurfactant production, 1908
 stereospecific oxidation, 4073
 Polyhydroxybutyrate
 synthesis in insect cells, 2540
 Polymer-secreting bacteria
 A. macleodii subsp. *fijiensis*, 67
 Polyol content
 fungal conidia, 2435
 Polyphosphate metabolism
 E. coli cadmium tolerance, 743
 Poly-β-hydroxybutyrate
 metabolism in bacteroids, 4186
 Population diversity, structure
 anaerobic biofilms, 3847
 fluorescent pseudomonads, 2449
 Hyphomicrobium spp., 522
 Population dynamics
 denitrifying sand filter, 4329
 P. syringae on leaves, 2560
 propionate-oxidizing bacteria, 2163
 Population size
 phyloplane bacteria, 3413
 Porous media
 bacterial transport, 2593
 Porous nylon biocarrier
 immobilized bacteria, 4659
 Porous oil reservoirs
 bacterial penetration, 3551
Porphyromonas gingivalis
 fimbrillin expression on *S. gordonii*, 3933
 Potassium depletion
 ruminal bacteria and ionophores, 4499
 Potato tuber tissue
 phytoalexin enniatin, 393
 Potting mixes
 Legionella spp., 1081
 Poultry
 C. jejuni, 4614
 Listeria spp., 1781
 Preoccluded virions
 in vivo production, stabilization, and infectivity, 105
 Pressure resistance
 Bacillus spores, 3897
Prevotella ruminicola
 glutamate dehydrogenase, 3826
 phosphorylase activities, 1770
 shuttle vector, 196
 Primer and probe hybridization potential
 analysis with rRNA sequences, 872
 Pristine soils
 chloroaromatic mineralization, 1159
 pRmeGR4a
 R. meliloti plasmid transfer, 1145
 Probiotic *Bifidobacterium* strain
 detection in feces, 3668
 Proline dehydrogenase
 B. japonicum, 221
 Proline 3-hydroxylase
 detection, 1903
 Proline substitution
 protein thermostability, 2066
 1,3-Propanediol
 glycerol fermentation, 1448
 Propionate
 formation in fecal microflora, 1589
 Propionate-oxidizing bacteria
 anaerobic granular sludge, 2163
 detection in sludge, 1656
 Protamine
 antibacterial effect, 1058
 Protease
 gene cloning, expression, 4256
 Protected carboxylic acids
 biohydroxylation, 2603
 Protein engineering
 lambdabacteriophage, 385
 Proteinases
 B. linens, 501
 Proteins
 A. awamori, 1951, 3646
 expression at low temperatures, 1441
 synthesis in bacteroids, 3757
 thermostability, 2066
 Proteolytic enzymes
 L. lactis, 156
 L. sanfrancisco, 3220
Proteus mirabilis
 swarming motility inhibition, 4284
 Protists
 oligonucleotide probes, 1416
 Proton motive force
 O. formigenes energetics, 2494

- Protozoa
 L. pneumophila replication, 2022
Pseudomonas acidophila
 PHA biosynthesis, 1004
Pseudomonas aeruginosa
 anaerobic expression system, 3391
 damping-off suppression, 865
 2,4-dinitrotoluene reduction, 2257
 lipase production, 3391
Pseudomonas fluorescens
 adhesion, 100
 cocaine degradation, 94
 cumene degradation genes, 4471
 cyanide oxidation, 2195
 growth temperature domains, 3319
 OMP heterogeneity, 480
 phosphatidylethanolamine production, 2778
 plasmid stability, 1076
 styrene catabolism genes, 121
 transport in soil, 33
 transport through porous media, 100
Pseudomonas pseudoalcaligenes
 alkaline lipase, 1093
Pseudomonas putida
 adaptation to stress, 2773
 catabolic promoter detection, 214
 2,3-dihydroxybiphenyl 1,2-dioxygenase, 1825
 6,6-dimethylfulvene transformation, 756
 isopropylbenzene catabolism operon regulation, 778
 novel aromatic copolyesters, 536
 OMP heterogeneity, 480
 styrene metabolism, 3594
 toluene degradation, 601, 4632
 o-xylene effect on cell envelope, 1129
Pseudomonas spp.
 atropine metabolism, 3245
 biosurfactant production, 1908
 cephalosporin C acylase oxidative modification, 2919
 3-chlorobenzoate transformation, 437
 2,4-diacetylphloroglucinol production, 552
 isopropylbenzene degradation, 3967
 naphthalene dioxygenase, 4073
 pcbC and *pcbD*, 262
 potential industrial uses, 3538
 toluene and ethylbenzene oxidation, 3101
Pseudomonas stutzeri
 nitrite accumulation, 2615
 phenanthrene degradation, 2387
 toluene, o-xylene catabolism, 3704
Pseudomonas syringae
 O serogroups, 2360
 rain effect on growth, 2560
 Psychrophilic bacteria
 adaptation to cold, 408
 extracellular alkaline phosphatases, 3732
 Psychrotrophic bacteria
 adaptation to cold, 408
 P. fluorescens, 3319
Puccinia carduorum
 biocontrol of weeds, 3037
 Puget Sound sediments
 PAH-degrading bacteria, 3344
 Pulsed-field gel electrophoresis
 ruminal bacteriophages, 994
 V. vulnificus, 3572
 Purple sulfur bacteria
 bacterioplankton control, 3251
putA
 B. japonicum, 221
Pycnoporus cinnabarinus
 ligninolytic system, 1151
 Pyochelin
 damping-off suppression, 865
 Pyoverdine
 damping-off suppression, 865
 Pyranose oxidase
 purification, characterization, 2586
pyrE and *pyrF*
 pyrimidine biosynthesis, 2191
 Pyrene
 biodegradation, 13
 degradation in soils, 283
 mineralization, 2311
 Pyrimidine
 biosynthesis genes, 2191
 Pyrite
 bacterial leaching, 3424
Pythium graminicola
 suppression by composts, 1550
Pythium splendens
 damping-off suppression, 865
 Quantification
 D. multivorans in biofilms, 3050
 Quasielastic light scattering
 B. sphaericus spore structure, 1699
 Radiolabeling
 acetate turnover in sediment, 772
 Radiolabelled thymidine and leucine
 bacterial production measurement, 694
 Rainbow trout
 R. salmoninarum detection, 3929
 Raindrop momentum
 P. syringae growth, 2560
 Randomly amplified polymorphic DNA
 G. lucidum isolate grouping, 1354
 X. fragariae identification, 3121
 Rasperry root rot
 antagonistic actinomycetes, 1630
 Rat urine
 ochratoxin metabolites, 648
 Rats and mice
 B. distasonis tryptic activity, 1434
rbcL
 Lake Erie planktonic bacteria, 1913
 16S rDNA
 bacteria in biodegraded paintings, 2059
 diversity of seagrass microorganisms, 766
 16S rDNA fragments
 molecular identification, 4210
 Recombinant peptides
 overexpression and cell light scatter, 3042
 Recombinant proteins
 expression at low temperatures, 1441
 herbicide production, 3794
 RubisCO overproduction, 3502
 Recreational waters
 enterococcus enumeration, 3881
 Recycling fermentors
 S_{min} measurement and prediction, 3655
 Red tides
 A. catenella, 4199
 Redox dyes
 toxicity to bacteria, 4587
 Redox-controlled sulfidostat
 sulfide-oxidizing phototrophs, 3640
 Reduction
 2,4-dinitrophenols, 784
 2,4-dinitrotoluene, 2257
 Reductive dechlorination
 anaerobic bacterial consortia, 2317
 3-chloro-4-hydroxybenzoate, 3800, 3809
 PCBs, 4174
 Reductive dehalogenation
 D. chlororespirans sp. nov., 3800, 3809
 tetrachloroethene, 761
Renibacterium salmoninarum
 detection by PCR, 3929
 Repetitive intergenic DNA sequences
 Streptomyces strain classification, 3489
 Reservoir host animals
 Lyme borreliosis, 4060
 Resistance
 Acholeplasma spp. and nisin, 3101
 B. subtilis and UV, 2221
 Bacillus spp. and pressure, 3897
 C. butyricum and allyl alcohol, 3499
 C. reinhardtii and glufosinate, 3834
 diamondback moth and toxins, 2839
 EHEC and acid, 3094
 F. moniliforme and benomyl, 3053
 fecal streptococci and antibiotics, 3997
 insects and *B. thuringiensis*, 4168
 lactococci and phages, 3494
 Listeria spp. and erythromycin, 269
 M. maripaludis and neomycin, 4233
 Mycoplasma spp. and nisin, 3101
 photosynthetic bacteria and tellurite, 4195
 ruminal bacteria and monensin, 4499
 S. tritici and azole, 184
 Resolvase genes
 soil bacteria, 2961
 Response surface models
 Pectinatus spp., 1233
 Restriction fragment length polymorphism
 aquatic birnavirus variation, 2513
 cry-type gene identification, 1369
 E. chrysanthemi, 2228
 Frankia genetic diversity, 979
 microbial diversity measurement, 2501
 seagrass microorganisms, 766
 typing of rhizobia, 2029
 Restriction-modification systems
 B. methanolicus, 1107
 L. lactis subsp. *cremoris*, 3494
Reticulitermes flavipes
 methanogens from hindgut, 3620
Reticulitermes speratus
 intestinal bacteria, 461
 symbiont nitrogen fixation genes, 2747
 Reverse hybridization
 Brucella spp. in milk, 1683
 Reverse transcriptase PCR
 enteric virus detection, 2086
 Rhizobia
 competitiveness, 529
 Rhizobium "hedysari" HCNT1
 nitrite reductase locus, 4019
 Rhizobium leguminosarum
 typing, 2029
 Rhizobium leguminosarum bv. phaseoli
 maize and lettuce roots, 2767
 Rhizobium leguminosarum bv. viciae
 distribution, 4202
 influence of bovine slurry, 1717
 ISR2, 685
 Rhizobium meliloti
 biotin overproduction, 3333
 genetic diversity, 2279
 plasmid conjugal transfer, 1145
 rhizopine concept test, 3991
 Rhizobium spp.
 detection of marked strains, 4191
 Rhizoctonia solani
 suppression by *B. subtilis*, 4081

- Rhizopine concept
test in *R. meliloti*, 3991
- Rhizopus oryzae*
fumaric acid production, 2926
- Rhizosphere
nonsymbiotic rhizobia, 2818
P. fluorescens plasmid stability, 1076
- Rhodobacter sphaeroides*
5-aminolevulinate production, 3560
- Rhodococcus erythropolis*
dibenzothiophene desulfurization, 1670, 3066
- Rhodococcus rhodochrous*
chiral 3-phenylbutyric acid degradation, 749
- Rhodococcus* spp.
cytochrome P-450 system, 403
2,3-dihydroxybiphenyl 1,2-dioxygenase, 2940
- Rhodothermus marinus*
thermostable cellulase, 3047
- Rhodotorula glutinis*
7-aminocephalosporanic acid conversion, 2669
- Riboflavin-producing *B. subtilis*
physiology, metabolic fluxes, 3687
- Ribosomal DNA
human colonic biota, 2273
- Ribosomal repeat heterogeneity
C. parvum, 712
- Ribosomes
direct isolation from soil, 4162
- Ribotyping
F. necrophorum subspecies, 469
Listeria spp. from meat, 1781
V. vulnificus, 3572
- Ribulose-1,5-bisphosphate carboxylase/oxygenase
Lake Erie planktonic bacteria, 1913
overproduction by *E. coli*, 3502
- River epilithon
natural transformation, 2994
- Rodents
Lyme disease spirochetes, 3887
- Root colonization
maize and lettuce, 2767
R. leguminosarum bv. phaseoli, 2767
recombinant *R. meliloti*, 3333
- Root nodules
Frankia 16S rRNA genes, 2904
- Root rot
identification in seedlings, 4026
suppression by composts, 1550
- Root-oxygenated sediments
adaptation of nitrifiers, 4100
- Roots
attachment of *Agrobacterium* spp., 3530
fluorescent pseudomonad selection, 2449
plant-associated methanotrophy, 4548
- Rough endoplasmic reticulum
L. pneumophila replication, 2022
- rpoS*
E. coli acid, heat, salt tolerance, 1822
- rRNA
extraction for community analysis, 4162
extraction from sediments, 3905
primer and probe hybridization potential, 872
ruminal amino acid deamination, 815
- 5S rRNA assay
mixed-culture bioprocesses, 1969
- 16S rRNA
actinomycetes from nodules, 3034
oil field microbial communities, 1623
phylogeny of Dead Sea halophiles, 3779
- 16S rRNA genes
diversity in ammonia oxidizers, 4147
Frankia spp., 2904
PCR amplification bias, 625
sequence heterogeneity in *Phormium* yellow leaf phytoplasma, 3133
- rRNA spacer primers
phytoplasmas, 2988
- Ruminal microorganisms
adaptation to ionophores, 4499
amino acid deamination, 815
bacteriophages, 994
celloextrin utilization, 1084
grass degradation, 1437
lysis, 1342
N. patriciarum, 1889
nitropropanol utilizers, 3885
phosphorylase activities, 1770
S. bovis malic enzyme, 2692
- Saccharomyces cerevisiae*
 α -L-arabinofuranosidase gene expression, 3840
copper toxicity, 3960
fatty acid biosynthesis, 4309
glucose, xylose metabolism, 2832
glycerol-3-phosphate dehydrogenase-deficient mutant, 3894
maltose metabolism, 4441
MIG1 disruption, 4441
nitrogen and anaerobic growth, 3187
sorbic acid adaptation, 3158
T. reesei gene expression, 3840
typing methods, 41
UV inactivation, 1977
xylanase gene expression, 2179
 β -xylanase gene expression, 1036
xylose fermentation to ethanol, 4648
 β -xylosidase gene expression, 3840
xylulose and glucose fermentation, 1705
xynA gene expression, 209
- Salami
E. coli O157:H7, 2735
- Salmonella abortusovis*
IS200 fingerprinting, 2375
- Salmonella choleraesuis*
transmission in swine, 141
- Salmonella* serovars
identification, 2741
- Salmonella* spp.
detection in food, 2294
- Salmonella stanley*
chlorine and heat treatment, 2212
- Salmonella typhi*
molecular analysis, 271
- Salmonella typhimurium*
detection in foods, 587
detection in water, 587
heat sensitivity, 1759
MAbs to LPS O-5 antigen, 1
PCR amplification of *fimA*, 4303
- Salmonellae
molecular genetic relationships, 804
virulence determinants, 3768
- San Joaquin Valley, California
selenium bioremediation, 3298
- Saprophytic basidiomycetes
isolation from soil, 4288
- Sarcosine oxidase
interaction with FAD, 2405
- Scanning confocal laser microscopy
toluene-degrading *P. putida*, 4632
- SCD1
cloning and analysis, 4340
- Schizosaccharomyces pombe*
dihydroxyacetone kinases, 4663
- Sclerotia
production by *A. tamarii*, 4036
- Sclerotinia sclerotiorum*
electrophoretic karyotypes, 4247
- Scutellospora castanea*
highly repeated DNA sequence, 2443
- Scytalone dehydratase
gene cloning, analysis, 4340
- Seafood
V. parahaemolyticus, 3516
- Seagrass
diversity of microorganisms, 766
- Seawater
E. coli enteropathogenicity, 4621
marine bacterium clusters, 3716
- Sediment
acetate turnover, 772
adaptation of nitrifiers, 4100
anaerobic microflora, 486
arsenate reduction, 1664
bacterial diversity, 3405
dioxin dechlorination, 4556
DNA and rRNA extraction, 3905
Geobacter spp., 1531
hydrochlorofluorocarbon degradation, 1818
labeled-formate metabolism, 3535
PAH-degrading bacteria, 3344
PCB dechlorination, 2534, 4174
phylogeny of marine bacteria, 4049
Thioploca spp., 1863
toluene and TCE degradation, 2647
- Seedlings
identification of root rot fungi, 4026
- Selective growth media
mycoplasmas and achleoplasmas, 3101
- Selenium
removal from water, 3298
- Semi-arid ecosystems
natural mycorrhizal potential, 842
- Semicontinuous culture
microalgae, 266
- Septoria tritici*
azole resistance, 184
- Sequence heterogeneity
Phormium yellow leaf mycoplasma 16S rRNA genes, 3133
- Sequencing batch reactors
isopimaric acid-degrading bacteria, 3140
- Sericea lespedeza
tannin degradation, 3600
- Serogroups
P. syringae, 2360
- Sewage effluent
enterohemorrhagic *E. coli*, 3466
- Sewage sludge
deep-water disposal site, 1741
dissolution of barium from barite, 2398
- Sewage sludge-amended soil
airborne bacteria, 296
pathogen indicators, 296
- Sewage treatment plants
Hyphomicrobium spp., 522
- Sheath-building sulfur bacteria
community structure, 1855
vertical migration, 1863
- Sheep pathogens
IS200 fingerprinting, 2375

- Shellfish
Norwalk virus detection, 254
viruses in oysters, 4268
- Sherry
detection of yeasts, 998
- Shewanella alga*
sludge deflocculation, 1487
starvation responses, 4678
- Shewanella putrefaciens*
protamine effect, 1058
sulfur reduction, 2100
- Shiga-like toxin genes
detection in ground beef, 1347
E. coli O157, 791
- Shigella dysenteriae*
type 1, potential virulence, 115
- Short-chain fatty acid formation
fecal microflora, 1589
- Shrimp
necrotizing hepatopancreatitis, 3439
V. harveyi, 3548
- Shrimp processing plant
L. monocytogenes, 705
- Siderophores
A. pleuropneumoniae, 853
B. megaterium aluminum uptake, 4044
damping-off suppression, 865
V. vulnificus biotype 2, 928
- Signal peptides
bacteriocin expression, 4095
xylanase A production, 109
- Silage
isolation of fungi, 3614
- Single colonies
in situ spectroscopy, 3339
- Single-strand conformation polymorphism
analysis
Aspergillus Section *Flavi*, 2947
- Sinorhizobium meliloti*
alfalfa yield improvement, 4260
- Site-specific recombination
bioinsecticide engineering, 4367
- Skin
virus survival, 4252
- Small-subunit rRNA gene
A. pullulans probe, 1514
hybridization probes, 4504
microbial diversity measurement, 2501
- Snap bean plants
P. syringae growth, 2560
- Sodium chloride
C. botulinum spore growth, 2664
effect on nisin inhibition, 2006
- Sodium dodecyl sulfate
E. faecalis stress response, 2416
- Sodium lactate
inhibition of *L. innocua*, 1616
- Soil
actinomycete diversity, 244
B. anthracis spores, 3474
bacterial production, 694
bioremediation, 1507, 2045, 2381, 2387
bovine slurry and rhizobia, 1717
capture of a *tfdA* homolog, 2470
carbon turnover and acetate, 494
chloroaromatic metabolism, 1159
chlorophenol contamination, 1507
copper-resistant methanogens, 2629
dimethylsilanediol degradation, 4352
direct ribosome isolation, 4162
DNA recovery, 316
enrofloxacin degradation, 4206
fluorescent pseudomonad diversity, 2449
hydrochlorofluorocarbon degradation, 1818
M. chlorophenolicum, 1478
nitrogen transformations, 2345
P. fluorescens transport, 33
PCP mineralization, 4361
pyrene degradation, 283
saprophytic basidiomycetes, 4288
- Soil bacteria
biosurfactant production, 1908
cellular fatty acids, 3360
earthworms and gene transfer, 515
estimation of abundance, 3787
genetic exchange, 3910
heavy metal effects, 420
heavy metal tolerance, 2970
metabolic efficiency, 2411
methanotrophic activity, 3203
4-methylquinoline degradation, 2910
molecular microbial diversity, 1935
transposition genes, 2961
- Soil-based biodegradation tests
substrate addition effect, 1428
- Solar heating
fecal bacterium inactivation, 399
- Solid-phase extraction
ergosterol in plant tissue, 415
- Solid-state cultures
P. capsulatum, 168
- Solvents
augmented pyrene mineralization, 2311
production in chemostats, 3210
tolerant bacteria, 1129
- Sorbic acid
yeast adaptation, 3158
- Souring oil reservoirs
thermophilic consortia, 3083
- soxRS*
activation in *E. coli*, 4003
- Soybeans
PHB metabolism in bacteroids, 4186
- Sparganium eurycarpum*
root-associated methanotrophy, 4548
- Sparteine
N. frontalis attachment to cellulose, 4666
- Sparus aurata* L.
Vibrio adhesion, 3650
- Spatial organization
nitrifying bacteria, 2156
- Specific bacterial cells
detection, 275
- Specific inhibitors
acetate turnover in sediment, 772
- Sphingomonas chlorophenolica*
PCP mineralization, 4361
- Sphingomonas herbicidovorans* sp. nov.
herbicide degradation, 4318
- Sphingomonas* spp.
aromatic compound degradation, 1467
chlorinated dibenzofuran and dioxin degradation, 367
stress response, 1287
- Sphingomonas yanokisuyae*
1,2-dihydronaphthalene oxidation, 4388
- Spirochetes
characterization of tick isolates, 2338
Lyme disease in Russia, 3887
termite guts, 347
- Spiroplasma
cultivation systems, 3453
- Spirulina platensis*
photic volume in photobioreactors, 1570
- Spodoptera exigua*
CryIA(b) toxicity, 1537
- Spodoptera littoralis*
8-endotoxin and endochitinase activity, 3581
- Spores
B. anthracis, 3474
B. sphaericus, 1699
calcium-calmodulin effects, 74
disinfection and sterilization, 545, 3897
thermal inactivation, 3745
UV-resistant *B. subtilis*, 2221
- Sporidiobolus* spp.
 γ -decalactone, 2826
- Sporobolomyces salmonicolor*
aldehyde reductase gene, 2302
- Sporocytophaga* spp.
genetic manipulation, 3017
- Sporulation
C. perfringens, 1441
- spvC*
virulence of salmonellae, 3768
- Stable cryptic plasmids
E. faecium 226, 1481
- Stable isotope labeling
acetate turnover in sediment, 772
- Stable isotope tracer approach
microbial DOC utilization, 2489
- Staphylococcal enterotoxin A
recovery from foods, 3274
- Staphylococcus aureus*
isolation of plasmid DNA, 3527
nisin inhibition, 2006
novel antibacterial agent, 3171
oxygen consumption stimulation, 1831
- Staphylococcus aureus* Cowan I
luciferase gene expression, 2356
- Starvation-survival
V. parahaemolyticus, 1300
- Starved cells
F. succinogenes lysis, 1342
M. luteus, 1311
S. alga, 4678
- Stationary-phase cells
acid tolerance, 4009
- stcP*
sterigmatocystin biosynthesis, 4296
- Stereospecific oxidation
naphthalene dioxygenase, 3355
polycyclic aromatic compounds, 4073
- Stereospecific production
herbicides, 3794
- Sterigmatocystin
biosynthesis, 4296
- Sterilization
spores, 545, 3897
- Sterol composition
azole-resistant *S. tritici*, 184
- Strain variation
P. sojae, 2811
- Straw compost
soil bioremediation, 1507
- Streams
fungal, bacterial production, 1610
- Streptococcus bovis*
ATPase-mediated energy spilling, 2095
malic enzyme, 2692
- Streptococcus gordonii*
P. gingivalis fimbriillin expression, 3933
- Streptococcus zooepidemicus*
zoocin A mode of action, 4536
- Streptomyces chromofuscus*
azo dye transformation, 1814
- Streptomyces citreus*
geosmin and related volatiles, 1295

- Streptomyces lividans*
exochitinase, 1774
improved mannanase production, 4656
protease gene expression, 4256
xylanase A production, 109
- Streptomyces reticuli*
Avicelase synthesis, 1065
- Streptomyces* spp.
proline 3-hydroxylase, 1903
rep-PCR for classification, 3489
- Streptomyces viridochromogenes*
phosphinothricin tripeptide biosynthesis, 570
- Stressed microorganisms
E. faecalis response, 2416
methanotrophic activity, 3203
P. putida, 2773
Sphingomonas sp. response, 1287
yeasts and *ATH1* disruption, 1563
- Structure-activity relationships
nisin and dehydroalanine-5, 2966
- Styrene catabolism
P. fluorescens, 121
- Styrene degradation
E. jeanselmei, 1471
P. putida, 3594
- Styrene monooxygenase
E. jeanselmei, 1471
- Substrate composition
coliforms in biofilms, 4014
- Substrate consumption
C. heintzii, 133
- Substrate diffusion
bacterial growth, 2286
- Substrate range
Pseudomonas strains, 3538
- Substrates
 β -galactosidase detection, 3868
Pseudomonas spp., 3538
- Succinic acid
production in *E. coli*, 1808
- Sucrose
metabolism by *C. glutamicum*, 3878
- Sugar
fermentation by *L. oenos*, 2577
- Sugar assimilation
Z. mobilis, 1096
- Sulfate reduction
PAH oxidation, 1099
- Sulfate respiration
inhibition, 2999
- Sulfate-reducing bacteria
adaptation to cold, 408
anaerobic biofilms, 3847
cellular fatty acids, 3360
crude oil utilization, 3605
distribution in a fjord, 1405
DMSP demethylation, 3978
nitrodiphenylamine metabolism, 1710
oil field microbial communities, 1623
oil field waters, 1793, 3551
toluene degradation, 1188
transposon mutagenesis, 3762
- Sulfide-oxidizing bacteria
oil field microbial communities, 1623
redox-controlled sulfidostat, 3640
- 2-(4-Sulfophenyl)butyrate
anaerobic desulfonation, 1526
- Sulfur
bacterial leaching of pyrite, 3424
reduction by *S. putrefaciens*, 2100
- Sulfur bacteria
community structure, 1855
vertical migration, 1863
- Sulfur reduction
M. chthonoplastes, 1752
- Sulfur-oxidizing bacteria
bivalve gill endosymbiont, 2324
- Sunlight
E. coli enteropathogenicity, 4621
virus survival, 1336
- Surface reporters
P. putida, 214
- Surfactants
E. faecalis adhesion, 1958
elution of viruses, 3470
phenanthrene degradation, 2387
pyrene desorption, degradation, 283
wastewater treatment, 3292
- Survival
genetically engineered bacteria, 3486
L. monocytogenes and acidic foods, 3128
lactic acid bacteria and drying, 259
pathogens on skin, 4252
S. stanley on alfalfa, 2212
V. parahaemolyticus, low temperature/starvation conditions, 1300
viruses and sunlight, 1336
- Suspension relaying
reduction of *V. vulnificus* levels in oysters, 3875
- Swarming motility
inhibition in *P. mirabilis*, 4284
- Sym plasmids
distribution in *R. leguminosarum*, 4202
- Symbiosis
termites and *N₂* fixers, 2747
- Synechococcus* spp.
diversity in a mat, 1045
genetic manipulation system, 1747
phosphorus effect, 2527
- Synechocystis* spp.
insertion element, 1964
phycobilisome synthesis, 1964
- Syntrophic consortia
benzoate degradation, 26
- T4 gene 32 protein
PCR amplification inhibition relief, 1102
- T6 monoclonal antibody
Salmonella detection in food, 2294
- Tailing
thermal inactivation curve, 3745
- Talaromyces flavus*
glucose oxidase for biocontrol, 3183
- Tannins
biodegradation, 3600
- Targeted disruption
chestnut blight fungus gene, 1984
- Taurocholic acid
 7α -dehydroxylation stimulation, 656
- Technetium reduction
new monitoring technique, 570
- Tellurite resistance
obligately aerobic photosynthetic bacteria, 4195
- Temperature
B. sphaericus spore structure, 1699
B. thermosphacta inactivation, 1029
C. botulinum spore growth, 2664
C. parvum oocyst viability, 1431
E. coli O157:H7 survival, 2567, 2735
effect on nisin inhibition, 2006
L. innocua growth, 1616
- L. monocytogenes* cold stress proteins, 1116
nonproteolytic *C. botulinum* growth, 3069
PCB dechlorination, 4174
Pectinatus sp. growth, 1233
polyol, trehalose in conidia, 2435
recombinant protein expression, 1441
S. typhimurium sensitivity, 1759
sulfate reduction, 408
V. vulnificus viability, 450
- Template annealing
PCR gene amplification bias, 625
- Temporal variability
nitrogenase gene expression, 1073
- Termites
intestinal bacteria, 461
methanogens from hindgut, 3620
not-yet-cultured spirochetes, 347
symbionts and *N₂* fixation genes, 2747
- 2,3,4,6-Tetrachlorobiphenyl
dechlorination, 4174
- Tetrachloroethene
reductive dehalogenation, 761
- Tetrachloroethylene
dehalogenation, 4108
- Tetragenococcus halophila*
Indonesian soy mash, 1203
- Tetrahymena pyriformis*
infection by legionellae, 1081
- Tetrameric restriction enzymes
microbial diversity studies, 2501
- Tetrazolium salts
toxicity to bacteria, 4587
- tfd*
transfer from *A. eutrophus*, 2521
- tfdA*
homolog capture from soil, 2470
- Thauera selenatis*
selenium removal from water, 3298
- thcB*
Rhodococcus cytochrome P-450 system, 403
- Thermal inactivation
A. niger spores, 3745
B. thermosphacta, 1029
bovine immunodeficiency virus, 4280
- Thermococcus litoralis*
growth physiology, 4478
- Thermomonospora fusca*
protease gene cloning, 4256
- Thermophiles
C. paradoxum, 4576
intracellular pH, 4576
isolation from hot composts, 1723
keratin degradation, 2875
oil field waters, 1793
pyrimidine biosynthesis, 2191
R. marinus, 3047
souring oil reservoirs, 3083
Synechococcus populations, 1045
T. litoralis, 4478
T. neapolitana, 2915
T. thermophilus, 2191
- Thermotability
proteins, 2066
- Thermostable, direct hemolysin
V. parahaemolyticus, 725, 3023
- Thermostable enzymes
cellulase from *R. marinus*, 3047
pyranose oxidase, 2586
- Thermotoga neapolitana*
glucose transport, 2915
- Thermus aquaticus*
isocitrate dehydrogenase, 4627

- Thermus* spp.
isolation from hot composts, 1723
- Thermus thermophilus*
pyrimidine biosynthesis genes, 2191
xylA and ethanol fermentation, 4648
- Thiobacillus caldus*
multiple serotypes, 4243
- Thioploca* spp.
community structure, 1855
vertical migration, 1863
- Thrombolytic therapy
fibrinolytic *Bacillus* strain, 2482
- Ticks
Lyme borreliosis, 3887, 4060
spirochetes, 2338
- Tilletia indica*
mtDNA for identification, 87
- Tn7
D. desulfuricans mutagenesis, 3762
- Tolerance
baker's yeast and freezing, 4401
E. coli and cadmium, 743
P. fluorescens and aluminum, 2778
soil bacteria and heavy metals, 2970
- Toluene
biodegradation, 601, 886, 964, 974, 1188, 2647, 3704, 4632
oxidation, 3101
- Toluene dioxygenase
purification, 2133
- Toluene-oxidizing bacteria
chloroform mineralization, 2716
TCE degradation, 825
- 4-Tolylsulfonate
anaerobic desulfonation, 1526
- Tomatinase
purification from *F. oxysporum*, 1604
- Tomato root tips
attachment of *Agrobacterium* spp., 3530
- Total coliforms
recovery from drinking water, 203
- Toxicity
barium, 2398
fusaproliferin, 3378
V. vulnificus biotype 2, 2331
- Toxins
A. catenella, 4199
5-cyano-2,3-ditolyl tetrazolium chloride, 4587
cyanobacteria, 4086
Fusarium spp., 4039
nonproteolytic *C. botulinum*, 3069
- Trametes versicolor*
cellobiose dehydrogenase, 4417
PAH oxidation, 4563
- Trametes villosa*
laccase genes, 834
- Transformation
azo dyes, 1814
C. michiganensis subsp. *sepedonicus*, 1500
3-chlorobenzoate, 437
TNT, 1120
- Transport mechanisms
acetic acid in *Z. bailii*, 3152
L. lactis and lactose, 1574
P. fluorescens, 100
P. fluorescens in soil, 33
T. neapolitana and glucose, 2915
- Transposition genes
soil bacteria, 2961
- Transposon mutagenesis
D. desulfuricans, 3762
- Trehalose
fungal conidia, 2435
yeast stress resistance, 1563
- Tri3*
15-O-acetyltransferase gene, 353
- Trichloroethylene
biodegradation, 825, 886, 1124, 2647, 2953, 3967
oxidation by *A. eutrophus*, 3227
- 2,4,5-Trichlorophenoxyacetic acid
metabolism by *B. cepacia*, 4276
- Trichoderma harzianum*
endochitinase production, 2145, 2152
- Trichoderma reesei*
 α -L-arabinofuranosidase, 3840
endochitinase expression, 2145, 2152
enzyme action on cotton cellulose, 2883
 β -xylanase gene, 1036
xylanase secretion, 2859
 β -xylosidase, 3840
- Trichodesmium thiebautii*
nitrogenase gene expression, 1073
- Trichothecene mycotoxins
detection in wheat, 1880
- Trichothecenes
15-O-acetyltransferase gene, 353
- Trigonopsis variabilis*
D-amino acid oxidase, 2106
- 2,4,6-Trinitrotoluene
microbial transformation, 2651
transformation by actinomycetes, 1120
transformation by *C. bifermentans*, 4669
- Tropine metabolism
Pseudomonas sp., 3245
- trpEG*
aphid endosymbionts, 332
- Trypsins
entomopathogenic fungi, 1257
- Tryptic activity
inactivation in *B. distans*, 1434
- Tuberculocidal testing
culture variability, 2681
- β -Tubulin gene
isolation from *F. moniliforme*, 3053
- Turbid
infection by *Enterococcus* spp., 607
- Typing
Bacillus spp. from food, 4229
rhizobia, 2029
- Typing methods
bovine *E. coli* strains, 3462
S. cerevisiae, 41
- Uncultured microorganisms
diversity in seagrass, 766
estimation of abundance, 3787
- Universal probes
molecular microbial ecology studies, 4504
- Unsaturated fatty acids
P. putida and stress, 2773
- Upflow anaerobic sludge blanket reactors
population dynamics, 2163
propionate-oxidizing bacteria, 1656
VFA-degrading granule formation, 2037
- Uptake mechanisms
B. megaterium and aluminum, 4044
C. glutamicum and sucrose, 3878
- Urea treatment
enterotoxin recovery from food, 3274
- Urease-positive *V. parahaemolyticus*
Kanagawa, Japan, 725
- Uropathogenic *E. faecalis*
adhesion inhibition, 1958
- UV light
nanoflagellate bacterivory, 4395
resistant *B. subtilis* spores, 2221
S. cerevisiae inactivation, 1977
- Vaccines
fish pathogens, 3727
periodontal disease, 3933
- Variacin
comparison with lactacin 481, 1799
- Vectors
B. subtilis, 3948
B. uniformis, 196
C. michiganensis subsp. *sepedonicus*, 1500
E. faecium, 1481
P. ruminicola, 196
S. aureus, 3527
viridans group streptococci, 3527
- ver-1A* and *ver-1B*
aflatoxin biosynthesis, 4568
- Veratryl alcohol
biosynthesis, 3366
- Vero cell assay
verocytotoxigenic *E. coli*, 4314
- Verocytotoxigenic *E. coli*
detection, 4314
- Vertical migration
Thioploca spp., 1863
- Verticillium dahliae*
biocontrol, 3183
- Viability
C. parvum oocysts, 1431, 3227
plasmolysis as indicator, 3939
V. vulnificus at low temperature, 450
- Viable but nonculturable state
E. coli, 4621
E. coli K-12 strain, 4114
S. dysenteriae, 115
V. parahaemolyticus, 1300
- Vibrio anguillarum*
generalized recombination defect, 3727
recA mutant construction, 3727
specific detection, 443
- Vibrio cholerae*
removal from water, 2508
- Vibrio mimicus*
turtle eggs, 1141
virulence, 3871
- Vibrio parahaemolyticus*
detection in seafood, 3516
Kanagawa, Japan, 725
starvation survival, 1300
thermostable direct hemolysin, 3023
- Vibrio proteolyticus*
identification, 2673
- Vibrio* spp.
adhesion to fish, 3650
- Vibrio vulnificus*
detection, biotypes 1 and 2, 1378
distribution in Chesapeake Bay, 717
genetic diversity, 3572
reduction in oysters, 3875
viability at low temperature, 450
- Vibrio vulnificus* biotype 2
iron acquisition mechanisms, 928
iron sources, 2806
pathogenicity for humans, 1454
phenotypic characterization, 918
toxic and enzymatic activities, 2331
- Viridans group streptococci
isolation of plasmid DNA, 3527

- Virulence**
A. hydrophila, 3459
 acid-tolerant *L. monocytogenes*, 1693
 bovine *E. coli* strains, 3462
S. dysenteriae, 115
 salmonellae, 3768
V. mimicus, 3871
V. vulnificus biotype 2, 2331
- Viruses**
 bacterial nutrient turnover, 1991
 bacterioplankton growth, 1991
 elution by surfactants, 3470
 gastroenteritis outbreak, 4268
 infectious astroviruses, 1811
 oysters, 4268
 sunlight and survival, 1336
 survival on skin, 4252
- Viscosity**
M. flos-aquae capsular polysaccharide, 1208
- Volatile fatty acids**
 degradation by defined species, 2037
P. stutzeri nitrite accumulation, 2615
- Volatile metabolites**
 geosmin, 1295
- Wastewater**
C. parvum detection, 2081
 denitrification, 4329
Giardia detection, 2081
 nitrogen removal, 4224
 nitrous oxide production, 2421
 treatment, 3292
- Water**
E. coli O157:H7 detection, 587
 enteric virus detection, 2086
 fecal pollution, 3997
Giardia and *Cryptosporidium* detection, 1317
 infectious astroviruses, 1811
S. typhimurium detection, 587
 test media for *E. coli*, 4032
- Water activity**
E. coli O157:H7 survival, 2735
- Water stress**
 methanotrophic activity response, 3203
- Waterline contamination**
 dental units, 3954
- Watershed management**
Cryptosporidium oocysts, 2789, 2798
Giardia cysts, 2789, 2798
- Weeds**
 biocontrol, 3037
- Wetlands**
 nitrogen transformations, 2345
 plant-associated methanotrophy, 4548
- Wheat**
 mycotoxin detection, 1880
- White rot fungi**
 cellobiose dehydrogenases, 4417
G. lucidum isolate grouping, 1354
 laccase, 4263
 laccase gene sequences, 3739
 ligninolytic system, 1151, 4066
lip expression, 3697
lip-like genes, 2660
 omnipresent bacteria, 2477
 PAH mineralization, 292, 2547, 3697
 PCP polymerization, 3890
 phenanthrene metabolism, 2547
 polychlorinated dibenzofuran degradation, 4323
 polychlorinated dibenzo-*p*-dioxin degradation, 4323
 pyranose oxidase, 2586
 tannin degradation, 3600
- Wine yeast strains**
 molecular polymorphism, 1944
 PCR differentiation, 4514
- Winemaking**
 acetoin production (minireview), 309
C. stellata, 128
 malolactic fermentation, 4493
- Wood-rotting fungi**
 enrofloxacin degradation, 4206
- Xanthobacter** spp.
 induction of alkene monooxygenase and epoxidase, 61
- Xanthomonas campestris** pv. *dieffenbachiae*
 leaf infection monitoring, 1021
- Xanthomonas fragariae**
 strain genetic relationships, 3121
- Xenobiotic compounds**
 biodegradation, 3910
 oxidation, 880
- XYL1**
 yeast anaerobic glucose conversion, 3894
- XYL2 and XYL3**
C. carbonum, 4129
- xyIA**
S. cerevisiae ethanol fermentation, 4648
- Xylanase**
A. nidulans, 2179
C. carbonum, 4129
Cephalosporium sp., 3480
 expression in *S. cerevisiae*, 209
 secretion by *T. reesei*, 2859
- Xylanase A**
S. lividans, 109
- β -Xylanase**
 gene expression in *S. cerevisiae*, 1036
- o*-Xylene**
 biodegradation, 3704
 effect on *P. putida* envelope, 1129
- Xylose**
 metabolism by *P. stipitis*, 2832
 metabolism by *S. cerevisiae*, 2832
- Xylose fermentation**
 ethanol production, 4648
- Xylose isomerase**
 ethanolic fermentation, 4648
- β -Xylosidase**
 expression in *S. cerevisiae*, 3840
- Xylulose**
 fermentation by *S. cerevisiae*, 1705
- XYN2**
 expression in *S. cerevisiae*, 1036
- Yeastlike endosymbionts**
 anobiid beetles, 162
- Yeasts**
 acetic acid transport, 3152
 acid tolerance, 3152, 3158
 aldehyde reductase gene, 2302
 D-amino acid oxidase, 2106
ATH1 and stress resistance, 1563
 detection in sherry, 998
 dissimilation of glycerol, 4663
 freeze tolerance, 4401
 glucose, xylose metabolism, 2832
 molecular polymorphisms, 1944
 novel β -glucosidase, 3165
 PCR differentiation, 4514
 peroxisomal fatty acid metabolism, 3864
 sorbic acid adaptation, 3158
- Yogurt**
Lactobacillus phage, 2111
- YOYO-1 and YO-PRO-1**
 flow cytometry of marine bacteria, 1649
- Yunnan, China**
 actinomycete diversity, 244, 249
- Zoocin A**
 mode of action, 4536
- Zoospores**
 chemotactic responses, 2811
- Zygosaccharomyces bailii**
 acetic acid transport, 3152
- Zymomonas mobilis**
 arabinose fermentation, 4465
pmi as selective marker, 4155
 sugar assimilation, 1096

